

efile GRAPHIC print - DO NOT PROCESS		As Filed Data -		DLN: 93491312011427	
Form 990-PF		Return of Private Foundation			OMB No 1545-0052
Department of the Treasury Internal Revenue Service		or Section 4947(a)(1) Trust Treated as Private Foundation			2016
		Do not enter social security numbers on this form as it may be made public. Information about Form 990-PF and its instructions is at www.irs.gov/form990pf .			Open to Public Inspection
For calendar year 2016, or tax year beginning 01-01-2016, and ending 12-31-2016					
Name of foundation THE SIMONS FOUNDATION INC				A Employer identification number 13-3794889	
% FANG HAN					
Number and street (or P O box number if mail is not delivered to street address) 160 FIFTH AVENUE 7TH FLOOR			Room/suite	B Telephone number (see instructions) (646) 654-0066	
City or town, state or province, country, and ZIP or foreign postal code NEW YORK, NY 10010				C If exemption application is pending, check here	
G Check all that apply				D 1. Foreign organizations, check here	
☐ Initial return				☐	
☐ Initial return of a former public charity				2. Foreign organizations meeting the 85% test, check here and attach computation	
☐ Final return				☐	
☐ Amended return					
☐ Address change				E If private foundation status was terminated under section 507(b)(1)(A), check here	
☐ Name change				☐	
H Check type of organization				F If the foundation is in a 60-month termination under section 507(b)(1)(B), check here	
☒ Section 501(c)(3) exempt private foundation				☐	
☐ Section 4947(a)(1) nonexempt charitable trust					
☐ Other taxable private foundation					
I Fair market value of all assets at end of year (from Part II, col (c), line 16) \$ 3,027,107,590		J Accounting method			
		☐ Cash		☒ Accrual	
		☐ Other (specify)			
		(Part I, column (d) must be on cash basis)			
Part I Analysis of Revenue and Expenses (The total of amounts in columns (b), (c), and (d) may not necessarily equal the amounts in column (a) (see instructions))		(a) Revenue and expenses per books	(b) Net investment income	(c) Adjusted net income	(d) Disbursements for charitable purposes (cash basis only)
Revenue	1 Contributions, gifts, grants, etc , received (attach schedule)	80,000,000			
	2 Check if the foundation is not required to attach Sch B				
	3 Interest on savings and temporary cash investments	16,702	16,702	0	
	4 Dividends and interest from securities				
	5a Gross rents				
	b Net rental income or (loss)				
	6a Net gain or (loss) from sale of assets not on line 10	187,733,437			
	b Gross sales price for all assets on line 6a	245,538,490			
	7 Capital gain net income (from Part IV, line 2)		196,269,995		
	8 Net short-term capital gain				
	9 Income modifications				
	10a Gross sales less returns and allowances				
b Less Cost of goods sold					
c Gross profit or (loss) (attach schedule)					
11 Other income (attach schedule)	30,643	8,937,624	0		
12 Total. Add lines 1 through 11	267,780,782	205,224,321	0		
Operating and Administrative Expenses	13 Compensation of officers, directors, trustees, etc	1,136,317	0	0	1,136,317
	14 Other employee salaries and wages	20,843,111			20,634,461
	15 Pension plans, employee benefits	6,694,326			6,770,268
	16a Legal fees (attach schedule)	499,674	0	0	541,955
	b Accounting fees (attach schedule)	50,289	0	0	86,000
	c Other professional fees (attach schedule)	1,991,755	0	0	1,970,963
	17 Interest	15,150	645,029		
	18 Taxes (attach schedule) (see instructions)	5,905,691	378,745	0	0
	19 Depreciation (attach schedule) and depletion	3,534,459			
	20 Occupancy	5,525,580			5,085,537
	21 Travel, conferences, and meetings	6,324,578			6,240,244
	22 Printing and publications	337,199			381,190
	23 Other expenses (attach schedule)	22,505,425	8,306,350	0	27,901,201
	24 Total operating and administrative expenses. Add lines 13 through 23	75,363,554	9,330,124	0	70,748,136
	25 Contributions, gifts, grants paid	232,084,162			232,368,427
26 Total expenses and disbursements. Add lines 24 and 25	307,447,716	9,330,124	0	303,116,563	
27 Subtract line 26 from line 12					
a Excess of revenue over expenses and disbursements	-39,666,934				
b Net investment income (if negative, enter -0-)		195,894,197			
c Adjusted net income(if negative, enter -0-)			0		
For Paperwork Reduction Act Notice, see instructions.		Cat No 11289X		Form 990-PF (2016)	

Part II Balance Sheets Attached schedules and amounts in the description column should be for end-of-year amounts only (See instructions.)		Beginning of year	End of year	
		(a) Book Value	(b) Book Value	(c) Fair Market Value
Assets	1 Cash—non-interest-bearing	0		
	2 Savings and temporary cash investments	118,049,623	122,852,607	122,852,607
	3 Accounts receivable ▶ <u>224,361</u>			
	Less allowance for doubtful accounts ▶ _____	44,668	224,361	224,361
	4 Pledges receivable ▶ _____			
	Less allowance for doubtful accounts ▶ _____			
	5 Grants receivable			
	6 Receivables due from officers, directors, trustees, and other disqualified persons (attach schedule) (see instructions)			
	7 Other notes and loans receivable (attach schedule) ▶ _____			
	Less allowance for doubtful accounts ▶ _____			
	8 Inventories for sale or use			
	9 Prepaid expenses and deferred charges	952,824	621,744	621,744
	10a Investments—U S and state government obligations (attach schedule)			
	b Investments—corporate stock (attach schedule)			
	c Investments—corporate bonds (attach schedule)	8,987	6,989	6,989
	11 Investments—land, buildings, and equipment basis ▶ _____			
Less accumulated depreciation (attach schedule) ▶ _____				
12 Investments—mortgage loans				
13 Investments—other (attach schedule)	2,491,358,366	2,696,500,371	2,696,500,371	
14 Land, buildings, and equipment basis ▶ <u>219,087,672</u>				
Less accumulated depreciation (attach schedule) ▶ <u>12,503,939</u>	20,931,789	206,583,733	206,583,733	
15 Other assets (describe ▶ _____)	1,031,819	317,785	317,785	
16 Total assets (to be completed by all filers—see the instructions Also, see page 1, item I)	2,632,378,076	3,027,107,590	3,027,107,590	
Liabilities	17 Accounts payable and accrued expenses	8,288,826	9,493,226	
	18 Grants payable.	526,444,965	523,968,863	
	19 Deferred revenue			
	20 Loans from officers, directors, trustees, and other disqualified persons			
	21 Mortgages and other notes payable (attach schedule).			
	22 Other liabilities (describe ▶ _____)	22,002,068	172,094,913	
	23 Total liabilities (add lines 17 through 22)	556,735,859	705,557,002	
Net Assets or Fund Balances	Foundations that follow SFAS 117, check here ▶ ☒ and complete lines 24 through 26 and lines 30 and 31.			
	24 Unrestricted	2,075,642,217	2,321,550,588	
	25 Temporarily restricted			
	26 Permanently restricted			
	Foundations that do not follow SFAS 117, check here ▶ ☐ and complete lines 27 through 31.			
	27 Capital stock, trust principal, or current funds			
	28 Paid-in or capital surplus, or land, bldg, and equipment fund			
	29 Retained earnings, accumulated income, endowment, or other funds			
	30 Total net assets or fund balances (see instructions)	2,075,642,217	2,321,550,588	
31 Total liabilities and net assets/fund balances (see instructions) .	2,632,378,076	3,027,107,590		

Part III Analysis of Changes in Net Assets or Fund Balances		
1 Total net assets or fund balances at beginning of year—Part II, column (a), line 30 (must agree with end-of-year figure reported on prior year's return)	1	2,075,642,217
2 Enter amount from Part I, line 27a	2	-39,666,934
3 Other increases not included in line 2 (itemize) ▶ _____	3	285,592,543
4 Add lines 1, 2, and 3	4	2,321,567,826
5 Decreases not included in line 2 (itemize) ▶ _____	5	17,238
6 Total net assets or fund balances at end of year (line 4 minus line 5)—Part II, column (b), line 30 .	6	2,321,550,588

Part IV Capital Gains and Losses for Tax on Investment Income

(a) List and describe the kind(s) of property sold (e g , real estate, 2-story brick warehouse, or common stock, 200 shs MLC Co)	(b) How acquired P—Purchase D—Donation	(c) Date acquired (mo , day, yr)	(d) Date sold (mo , day, yr)
1a See Additional Data Table			
b			
c			
d			
e			

(e) Gross sales price	(f) Depreciation allowed (or allowable)	(g) Cost or other basis plus expense of sale	(h) Gain or (loss) (e) plus (f) minus (g)
a See Additional Data Table			
b			
c			
d			
e			

Complete only for assets showing gain in column (h) and owned by the foundation on 12/31/69			(l) Gains (Col (h) gain minus col (k), but not less than -0-) or Losses (from col (h))
(i) F M V as of 12/31/69	(j) Adjusted basis as of 12/31/69	(k) Excess of col (i) over col (j), if any	
a See Additional Data Table			
b			
c			
d			
e			

2 Capital gain net income or (net capital loss) { If gain, also enter in Part I, line 7 If (loss), enter -0- in Part I, line 7 }	2	196,269,995
3 Net short-term capital gain or (loss) as defined in sections 1222(5) and (6) If gain, also enter in Part I, line 8, column (c) (see instructions) If (loss), enter -0- in Part I, line 8	3	

Part V Qualification Under Section 4940(e) for Reduced Tax on Net Investment Income

(For optional use by domestic private foundations subject to the section 4940(a) tax on net investment income)

If section 4940(d)(2) applies, leave this part blank

Was the foundation liable for the section 4942 tax on the distributable amount of any year in the base period?



Yes



No

If "Yes," the foundation does not qualify under section 4940(e) Do not complete this part

1 Enter the appropriate amount in each column for each year, see instructions before making any entries

(a) Base period years Calendar year (or tax year beginning in)	(b) Adjusted qualifying distributions	(c) Net value of noncharitable-use assets	(d) Distribution ratio (col (b) divided by col (c))
2015	276,544,942	2,459,437,453	0 112442
2014	265,715,246	2,092,304,588	0 126996
2013	206,778,839	2,078,519,607	0 099484
2012	202,854,053	1,899,938,089	0 106769
2011	147,308,462	1,917,585,422	0 07682
2 Total of line 1, column (d)			2 0 522511
3 Average distribution ratio for the 5-year base period—divide the total on line 2 by 5, or by the number of years the foundation has been in existence if less than 5 years			3 0 104502
4 Enter the net value of noncharitable-use assets for 2016 from Part X, line 5			4 2,715,724,823
5 Multiply line 4 by line 3			5 283,798,675
6 Enter 1% of net investment income (1% of Part I, line 27b)			6 1,958,942
7 Add lines 5 and 6			7 285,757,617
8 Enter qualifying distributions from Part XII, line 4			8 304,206,908

If line 8 is equal to or greater than line 7, check the box in Part VI, line 1b, and complete that part using a 1% tax rate See the Part VI instructions

Part VI Excise Tax Based on Investment Income (Section 4940(a), 4940(b), 4940(e), or 4948—see instructions)

1a	Exempt operating foundations described in section 4940(d)(2), check here ☐ and enter "N/A" on line 1 Date of ruling or determination letter _____ (attach copy of letter if necessary—see instructions)		
b	Domestic foundations that meet the section 4940(e) requirements in Part V, check here ☒ and enter 1% of Part I, line 27b	1	1,958,942
c	All other domestic foundations enter 2% of line 27b. Exempt foreign organizations enter 4% of Part I, line 12, col (b)		
2	Tax under section 511 (domestic section 4947(a)(1) trusts and taxable foundations only. Others enter -0-)	2	
3	Add lines 1 and 2.	3	1,958,942
4	Subtitle A (income) tax (domestic section 4947(a)(1) trusts and taxable foundations only. Others enter -0-)	4	
5	Tax based on investment income. Subtract line 4 from line 3. If zero or less, enter -0-	5	1,958,942
6	Credits/Payments		
a	2016 estimated tax payments and 2015 overpayment credited to 2016	6a	2,000,000
b	Exempt foreign organizations—tax withheld at source	6b	
c	Tax paid with application for extension of time to file (Form 8868)	6c	
d	Backup withholding erroneously withheld	6d	
7	Total credits and payments. Add lines 6a through 6d.	7	2,000,000
8	Enter any penalty for underpayment of estimated tax. Check here ☐ if Form 2220 is attached	8	
9	Tax due. If the total of lines 5 and 8 is more than line 7, enter amount owed	9	
10	Overpayment. If line 7 is more than the total of lines 5 and 8, enter the amount overpaid	10	41,058
11	Enter the amount of line 10 to be Credited to 2017 estimated tax ☐ 41,058 Refunded ☐	11	

Part VII-A Statements Regarding Activities

	Yes	No
1a During the tax year, did the foundation attempt to influence any national, state, or local legislation or did it participate or intervene in any political campaign?	1a	No
b Did it spend more than \$100 during the year (either directly or indirectly) for political purposes (see Instructions for definition)? <i>If the answer is "Yes" to 1a or 1b, attach a detailed description of the activities and copies of any materials published or distributed by the foundation in connection with the activities</i>	1b	No
c Did the foundation file Form 1120-POL for this year?	1c	No
d Enter the amount (if any) of tax on political expenditures (section 4955) imposed during the year (1) On the foundation ☐ \$ 0 (2) On foundation managers ☐ \$ 0		
e Enter the reimbursement (if any) paid by the foundation during the year for political expenditure tax imposed on foundation managers ☐ \$ 0		
2 Has the foundation engaged in any activities that have not previously been reported to the IRS? <i>If "Yes," attach a detailed description of the activities</i>	2	No
3 Has the foundation made any changes, not previously reported to the IRS, in its governing instrument, articles of incorporation, or bylaws, or other similar instruments? <i>If "Yes," attach a conformed copy of the changes</i>	3	No
4a Did the foundation have unrelated business gross income of \$1,000 or more during the year?	4a	Yes
b If "Yes," has it filed a tax return on Form 990-T for this year?	4b	Yes
5 Was there a liquidation, termination, dissolution, or substantial contraction during the year? <i>If "Yes," attach the statement required by General Instruction T</i>	5	No
6 Are the requirements of section 508(e) (relating to sections 4941 through 4945) satisfied either • By language in the governing instrument, or • By state legislation that effectively amends the governing instrument so that no mandatory directions that conflict with the state law remain in the governing instrument?	6	Yes
7 Did the foundation have at least \$5,000 in assets at any time during the year? <i>If "Yes," complete Part II, col (c), and Part XV</i>	7	Yes
8a Enter the states to which the foundation reports or with which it is registered (see instructions) ☐ CA, DE, NY		
b If the answer is "Yes" to line 7, has the foundation furnished a copy of Form 990-PF to the Attorney General (or designate) of each state as required by General Instruction G? <i>If "No," attach explanation</i> .	8b	Yes
9 Is the foundation claiming status as a private operating foundation within the meaning of section 4942(j)(3) or 4942(j)(5) for calendar year 2016 or the taxable year beginning in 2016 (see instructions for Part XIV)? <i>If "Yes," complete Part XIV</i>	9	No
10 Did any persons become substantial contributors during the tax year? <i>If "Yes," attach a schedule listing their names and addresses</i>	10	No

Part VII-A Statements Regarding Activities (continued)

11	At any time during the year, did the foundation, directly or indirectly, own a controlled entity within the meaning of section 512(b)(13)? If "Yes," attach schedule (see instructions) 991 .	11	Yes	
12	Did the foundation make a distribution to a donor advised fund over which the foundation or a disqualified person had advisory privileges? If "Yes," attach statement (see instructions)	12		No
13	Did the foundation comply with the public inspection requirements for its annual returns and exemption application? Website address www.simonsfoundation.org	13	Yes	
14	The books are in care of FANG HAN Telephone no (646) 654-0066			

Located at **160 FIFTH AVENUE 7TH FLOOR NEW YORK NY** ZIP+4 **10010**

15	Section 4947(a)(1) nonexempt charitable trusts filing Form 990-PF in lieu of Form 1041 —Check here ☐ and enter the amount of tax-exempt interest received or accrued during the year 15		
16	At any time during calendar year 2016, did the foundation have an interest in or a signature or other authority over a bank, securities, or other financial account in a foreign country?	Yes	No
	See instructions for exceptions and filing requirements for FinCEN Form 114, Report of Foreign Bank and Financial Accounts (FBAR) If "Yes," enter the name of the foreign country BD	Yes	

Part VII-B Statements Regarding Activities for Which Form 4720 May Be Required

File Form 4720 if any item is checked in the "Yes" column, unless an exception applies.

1a	During the year did the foundation (either directly or indirectly)		Yes	No
	(1) Engage in the sale or exchange, or leasing of property with a disqualified person? ☐ Yes ☒ No			
	(2) Borrow money from, lend money to, or otherwise extend credit to (or accept it from) a disqualified person? ☐ Yes ☒ No			
	(3) Furnish goods, services, or facilities to (or accept them from) a disqualified person? ☒ Yes ☐ No			
	(4) Pay compensation to, or pay or reimburse the expenses of, a disqualified person? ☒ Yes ☐ No			
	(5) Transfer any income or assets to a disqualified person (or make any of either available for the benefit or use of a disqualified person)? ☐ Yes ☒ No			
	(6) Agree to pay money or property to a government official? (Exception. Check "No" if the foundation agreed to make a grant to or to employ the official for a period after termination of government service, if terminating within 90 days). ☐ Yes ☒ No			
b	If any answer is "Yes" to 1a(1)–(6), did any of the acts fail to qualify under the exceptions described in Regulations section 53.4941(d)-3 or in a current notice regarding disaster assistance (see instructions)? ☐ Organizations relying on a current notice regarding disaster assistance check here. ☐	1b		No
c	Did the foundation engage in a prior year in any of the acts described in 1a, other than excepted acts, that were not corrected before the first day of the tax year beginning in 2016? ☐	1c		No
2	Taxes on failure to distribute income (section 4942) (does not apply for years the foundation was a private operating foundation defined in section 4942(j)(3) or 4942(j)(5))			
a	At the end of tax year 2016, did the foundation have any undistributed income (lines 6d and 6e, Part XIII) for tax year(s) beginning before 2016? ☐ Yes ☒ No If "Yes," list the years 20 , 20 , 20 , 20			
b	Are there any years listed in 2a for which the foundation is not applying the provisions of section 4942(a)(2) (relating to incorrect valuation of assets) to the year's undistributed income? (If applying section 4942(a)(2) to all years listed, answer "No" and attach statement—see instructions) ☐	2b		
c	If the provisions of section 4942(a)(2) are being applied to any of the years listed in 2a, list the years here 20 , 20 , 20 , 20			
3a	Did the foundation hold more than a 2% direct or indirect interest in any business enterprise at any time during the year? ☐ Yes ☒ No			
b	If "Yes," did it have excess business holdings in 2016 as a result of (1) any purchase by the foundation or disqualified persons after May 26, 1969, (2) the lapse of the 5-year period (or longer period approved by the Commissioner under section 4943(c)(7)) to dispose of holdings acquired by gift or bequest, or (3) the lapse of the 10-, 15-, or 20-year first phase holding period? (Use Schedule C, Form 4720, to determine if the foundation had excess business holdings in 2016). ☐	3b		
4a	Did the foundation invest during the year any amount in a manner that would jeopardize its charitable purposes?	4a		No
b	Did the foundation make any investment in a prior year (but after December 31, 1969) that could jeopardize its charitable purpose that had not been removed from jeopardy before the first day of the tax year beginning in 2016?	4b		No

Part VII-B Statements Regarding Activities for Which Form 4720 May Be Required (Continued)

5a During the year did the foundation pay or incur any amount to				
(1) Carry on propaganda, or otherwise attempt to influence legislation (section 4945(e))?	☐ Yes ☒ No			
(2) Influence the outcome of any specific public election (see section 4955), or to carry on, directly or indirectly, any voter registration drive?	☐ Yes ☒ No			
(3) Provide a grant to an individual for travel, study, or other similar purposes?	☐ Yes ☒ No			
(4) Provide a grant to an organization other than a charitable, etc., organization described in section 4945(d)(4)(A)? (see instructions).	☒ Yes ☐ No			
(5) Provide for any purpose other than religious, charitable, scientific, literary, or educational purposes, or for the prevention of cruelty to children or animals?	☐ Yes ☒ No			
b If any answer is "Yes" to 5a(1)–(5), did any of the transactions fail to qualify under the exceptions described in Regulations section 53.4945 or in a current notice regarding disaster assistance (see instructions)?	☐	5b		No
Organizations relying on a current notice regarding disaster assistance check here.	☐			
c If the answer is "Yes" to question 5a(4), does the foundation claim exemption from the tax because it maintained expenditure responsibility for the grant?	☒ Yes ☐ No			
If "Yes," attach the statement required by Regulations section 53.4945–5(d)				
6a Did the foundation, during the year, receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?	☐ Yes ☒ No			
b Did the foundation, during the year, pay premiums, directly or indirectly, on a personal benefit contract?	☐ Yes ☒ No	6b		No
If "Yes" to 6b, file Form 8870				
7a At any time during the tax year, was the foundation a party to a prohibited tax shelter transaction?	☐ Yes ☒ No			
b If yes, did the foundation receive any proceeds or have any net income attributable to the transaction?	☐ Yes ☒ No	7b		

Part VIII Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors

1 List all officers, directors, trustees, foundation managers and their compensation (see instructions).				
(a) Name and address	Title, and average hours per week (b) devoted to position	(c) Compensation (If not paid, enter -0-)	(d) Contributions to employee benefit plans and deferred compensation	Expense account, (e) other allowances
See Additional Data Table				
2 Compensation of five highest-paid employees (other than those included on line 1—see instructions). If none, enter "NONE."				
(a) Name and address of each employee paid more than \$50,000	Title, and average hours per week (b) devoted to position	(c) Compensation	(d) Contributions to employee benefit plans and deferred compensation	Expense account, (e) other allowances
LOUIS REICHARDT 160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	DIRECTOR SFARI 40 0	583,625	52,856	0
ALEX LASH 160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	CHIEF INFORMATICS 40 0	447,787	62,556	0
LESLIE GREENGARD 160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	DIRECTOR CCB 26 0	401,587	21,200	0
ABRAHAM LACKMAN 160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	OFF CIVIC AFFAIRS 32 0	378,039	52,318	0
MARION GREENUP 160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	VP ADMINISTRATION 40 0	361,371	52,318	0
Total number of other employees paid over \$50,000.				140

Part VIII Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors (continued)
3 Five highest-paid independent contractors for professional services (see instructions). If none, enter "NONE".

(a) Name and address of each person paid more than \$50,000	(b) Type of service	(c) Compensation
Prometheus Research LLC 55 Church Street NEW HAVEN, CT 06510	Research Consulting	790,445
CPSG Partners LLC 5001 Spring Valley Rd 300 E DALLAS, TX 75244	tech consulting	707,090
Loeb Block & Partners 505 Park Avenue NEW YORK, NY 10022	Legal Services	613,511
Tempus Dynamics LLC 6 Ranger Ct BALTIMORE, MD 21234	medical consulting	507,152
PreventionGenetics LLC 3800 South Business Park Ave MARSHFIELD, WI 54449	Genotyping Services	438,012

Total number of others receiving over \$50,000 for professional services. ► 35

Part IX-A Summary of Direct Charitable Activities

List the foundation's four largest direct charitable activities during the tax year. Include relevant statistical information such as the number of organizations and other beneficiaries served, conferences convened, research papers produced, etc.

	Expenses
1 SEE ATTACHMENT 20	16,409,997
2 SEE ATTACHMENT 20	1,459,804
3 SEE ATTACHMENT 20	1,726,881
4 SEE ATTACHMENT 20	9,116,065

Part IX-B Summary of Program-Related Investments (see instructions)

Describe the two largest program-related investments made by the foundation during the tax year on lines 1 and 2	Amount
1	
2	
All other program-related investments. See instructions.	
3	
Total. Add lines 1 through 3 ►	

Part X Minimum Investment Return (All domestic foundations must complete this part. Foreign foundations, see instructions.)

1	Fair market value of assets not used (or held for use) directly in carrying out charitable, etc., purposes		
a	Average monthly fair market value of securities.	1a	2,570,122,021
b	Average of monthly cash balances.	1b	186,959,018
c	Fair market value of all other assets (see instructions).	1c	0
d	Total (add lines 1a, b, and c).	1d	2,757,081,039
e	Reduction claimed for blockage or other factors reported on lines 1a and 1c (attach detailed explanation).	1e	
2	Acquisition indebtedness applicable to line 1 assets.	2	0
3	Subtract line 2 from line 1d.	3	2,757,081,039
4	Cash deemed held for charitable activities. Enter 1 1/2% of line 3 (for greater amount, see instructions).	4	41,356,216
5	Net value of noncharitable-use assets. Subtract line 4 from line 3. Enter here and on Part V, line 4.	5	2,715,724,823
6	Minimum investment return. Enter 5% of line 5.	6	135,786,241

Part XI Distributable Amount (see instructions) (Section 4942(j)(3) and (j)(5) private operating foundations and certain foreign organizations check here ☐ and do not complete this part.)

1	Minimum investment return from Part X, line 6.	1	135,786,241
2a	Tax on investment income for 2016 from Part VI, line 5.	2a	1,958,942
b	Income tax for 2016 (This does not include the tax from Part VI).	2b	76,663
c	Add lines 2a and 2b.	2c	2,035,605
3	Distributable amount before adjustments. Subtract line 2c from line 1.	3	133,750,636
4	Recoveries of amounts treated as qualifying distributions.	4	769,150
5	Add lines 3 and 4.	5	134,519,786
6	Deduction from distributable amount (see instructions).	6	
7	Distributable amount as adjusted. Subtract line 6 from line 5. Enter here and on Part XIII, line 1.	7	134,519,786

Part XII Qualifying Distributions (see instructions)

1	Amounts paid (including administrative expenses) to accomplish charitable, etc., purposes		
a	Expenses, contributions, gifts, etc.—total from Part I, column (d), line 26.	1a	303,116,563
b	Program-related investments—total from Part IX-B.	1b	0
2	Amounts paid to acquire assets used (or held for use) directly in carrying out charitable, etc., purposes.	2	1,090,345
3	Amounts set aside for specific charitable projects that satisfy the		
a	Suitability test (prior IRS approval required).	3a	0
b	Cash distribution test (attach the required schedule).	3b	0
4	Qualifying distributions. Add lines 1a through 3b. Enter here and on Part V, line 8, and Part XIII, line 4.	4	304,206,908
5	Foundations that qualify under section 4940(e) for the reduced rate of tax on net investment income. Enter 1% of Part I, line 27b (see instructions).	5	1,958,942
6	Adjusted qualifying distributions. Subtract line 5 from line 4.	6	302,247,966

Note: The amount on line 6 will be used in Part V, column (b), in subsequent years when calculating whether the foundation qualifies for the section 4940(e) reduction of tax in those years.

Part XIII Undistributed Income (see instructions)

	(a) Corpus	(b) Years prior to 2015	(c) 2015	(d) 2016
1 Distributable amount for 2016 from Part XI, line 7				134,519,786
2 Undistributed income, if any, as of the end of 2016				
a Enter amount for 2015 only.			0	
b Total for prior years 2014, 2013, 2012		0		
3 Excess distributions carryover, if any, to 2016				
a From 2011.				
b From 2012.				
c From 2013.				102,400,876
d From 2014.				164,242,254
e From 2015.				103,251,274
f Total of lines 3a through e.	369,894,404			
4 Qualifying distributions for 2016 from Part XII, line 4 ▶ \$ <u>304,206,908</u>				
a Applied to 2015, but not more than line 2a			0	
b Applied to undistributed income of prior years (Election required—see instructions).				
c Treated as distributions out of corpus (Election required—see instructions).	80,000,000			
d Applied to 2016 distributable amount.				134,519,786
e Remaining amount distributed out of corpus	89,687,122			
5 Excess distributions carryover applied to 2016 (If an amount appears in column (d), the same amount must be shown in column (a))				
6 Enter the net total of each column as indicated below:				
a Corpus Add lines 3f, 4c, and 4e Subtract line 5	539,581,526			
b Prior years' undistributed income Subtract line 4b from line 2b		0		
c Enter the amount of prior years' undistributed income for which a notice of deficiency has been issued, or on which the section 4942(a) tax has been previously assessed.				
d Subtract line 6c from line 6b Taxable amount—see instructions		0		
e Undistributed income for 2015 Subtract line 4a from line 2a Taxable amount—see instructions			0	
f Undistributed income for 2016 Subtract lines 4d and 5 from line 1 This amount must be distributed in 2017				0
7 Amounts treated as distributions out of corpus to satisfy requirements imposed by section 170(b)(1)(F) or 4942(g)(3) (Election may be required - see instructions).	80,000,000			
8 Excess distributions carryover from 2011 not applied on line 5 or line 7 (see instructions).				
9 Excess distributions carryover to 2017. Subtract lines 7 and 8 from line 6a	459,581,526			
10 Analysis of line 9				
a Excess from 2012.				
b Excess from 2013.				102,400,876
c Excess from 2014.				164,242,254
d Excess from 2015.				103,251,274
e Excess from 2016.				89,687,122

Part XIV Private Operating Foundations (see instructions and Part VII-A, question 9)

1a If the foundation has received a ruling or determination letter that it is a private operating foundation, and the ruling is effective for 2016, enter the date of the ruling. ▶

b Check box to indicate whether the organization is a private operating foundation described in section ☐ 4942(j)(3) or ☐ 4942(j)(5)

2a Enter the lesser of the adjusted net income from Part I or the minimum investment return from Part X for each year listed

	Tax year	Prior 3 years			(e) Total
	(a) 2016	(b) 2015	(c) 2014	(d) 2013	
b 85% of line 2a					
c Qualifying distributions from Part XII, line 4 for each year listed					
d Amounts included in line 2c not used directly for active conduct of exempt activities					
e Qualifying distributions made directly for active conduct of exempt activities. Subtract line 2d from line 2c					

3 Complete 3a, b, or c for the alternative test relied upon

a "Assets" alternative test—enter

(1) Value of all assets

(2) Value of assets qualifying under section 4942(j)(3)(B)(i)

b "Endowment" alternative test— enter 2/3 of minimum investment return shown in Part X, line 6 for each year listed.

c "Support" alternative test—enter

(1) Total support other than gross investment income (interest, dividends, rents, payments on securities loans (section 512(a)(5)), or royalties)

(2) Support from general public and 5 or more exempt organizations as provided in section 4942(j)(3)(B)(iii).

(3) Largest amount of support from an exempt organization

(4) Gross investment income

Part XV Supplementary Information (Complete this part only if the organization had \$5,000 or more in assets at any time during the year—see instructions.)

1 Information Regarding Foundation Managers:

a List any managers of the foundation who have contributed more than 2% of the total contributions received by the foundation before the close of any tax year (but only if they have contributed more than \$5,000) (See section 507(d)(2))

JAMES AND MARILYN SIMONS

b List any managers of the foundation who own 10% or more of the stock of a corporation (or an equally large portion of the ownership of a partnership or other entity) of which the foundation has a 10% or greater interest

NONE

◀ ▶

2 Information Regarding Contribution, Grant, Gift, Loan, Scholarship, etc., Programs:

Check here ☒ if the foundation only makes contributions to preselected charitable organizations and does not accept unsolicited requests for funds. If the foundation makes gifts, grants, etc. (see instructions) to individuals or organizations under other conditions, complete items 2a, b, c, and d

a The name, address, and telephone number or email address of the person to whom applications should be addressed

b The form in which applications should be submitted and information and materials they should include

c Any submission deadlines

d Any restrictions or limitations on awards, such as by geographical areas, charitable fields, kinds of institutions, or other factors

Part XV **Supplementary Information** (continued)**3 Grants and Contributions Paid During the Year or Approved for Future Payment**

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
a <i>Paid during the year</i> SEE Attachment 17 SEE Attachment 17 New York, NY 10010			SEE Attachment 17	232,368,427
Total ► 3a				232,368,427
b <i>Approved for future payment</i> SEE Attachment 18 SEE Attachment 18 New York, NY 10010			SEE Attachment 18	183,827,537
Total ► 3b				183,827,537

Enter gross amounts unless otherwise indicated

(See worksheet in line 13 instructions to verify calculations)

(See worksheet in line 13 instructions to verify calculations)

[illegible]

Information Regarding Transfers To and Transactions and Relationships With Noncharitable Exempt Organizations

	Yes	No
--	-----	----

--	--	--

1a(1)	No
--------------	-----------

1a(2)	No
-------	----

--	--	--

1b(1)	No
--------------	-----------

1b(2)	No
-------	----

1b(3)	No
--------------	-----------

1b(4)		No
--------------	--	-----------

1b(5)		No
--------------	--	-----------

1b(6)		No
--------------	--	-----------

1c		No
-----------	--	-----------

[illegible]

2a Is the foundation directly or indirectly affiliated with, or related to, one or more tax-exempt organizations

☐ Yes ☒ No

b If "Yes," complete the following schedule

(a) Name of organization	(b) Type of organization	(c) Description of relationship

Sign which preparer has any knowledge

Sign Here ***** 2017-11-

Date _____

Preparer's Signature

Firm's name ► GRANT THORNTON LLP

NEW YORK, NY 100172013

Form 990PF Part IV - Capital Gains and Losses for Tax on Investment Income - Columns a - d			
List and describe the kind(s) of property sold (e g , real estate, (a) 2-story brick warehouse, or common stock, 200 shs MLC Co)	(b) How acquired P—Purchase D—Donation	(c) Date acquired (mo , day, yr)	(d) Date sold (mo , day, yr)
LONG-TERM CAPITAL GAIN FROM LPS	P		
SHORT-TERM CAPITAL GAIN FROM LPS	P		
LESS SHORT-TERM CAPITAL GAIN FROM UBTI	P		
LESS LONG-TERM CAPITAL GAIN FROM UBTI	P		
LESS 1231 GAIN FROM UBTI	P		
FUND-OF-FUND INVESTMENT SALE 1	P		
FUND-OF-FUND INVESTMENT SALE 2	P		
FUND-OF-FUND INVESTMENT SALE 3	P		

Form 990PF Part IV - Capital Gains and Losses for Tax on Investment Income - Columns e - h

(e) Gross sales price	(f) Depreciation allowed (or allowable)	(g) Cost or other basis plus expense of sale	(h) Gain or (loss) (e) plus (f) minus (g)
			19,972,524
			10,393,255
			-623
			-139,715
			-1,095,637
106,038		20,302	85,736
240,353,451		75,623,869	164,729,582
5,079,000		2,754,127	2,324,873

Form 990PF Part IV - Capital Gains and Losses for Tax on Investment Income - Columns i - l

Complete only for assets showing gain in column (h) and owned by the foundation on 12/31/69			(I) Gains (Col (h) gain minus col (k), but not less than -0-) or Losses (from col (h))
(i) F M V as of 12/31/69	(j) Adjusted basis as of 12/31/69	(k) Excess of col (i) over col (j), if any	
			85,736
			164,729,582
			2,324,873

Form 990PF Part VIII Line 1 - List all officers, directors, trustees, foundation managers and their compensation				
(a) Name and address	Title, and average hours per week (b) devoted to position	(c) Compensation (If not paid, enter -0-)	(d) Contributions to employee benefit plans and deferred compensation	Expense account, (e) other allowances
Marilyn Simons  160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	president/trustee 40 0	0	0	0
James Simons  160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	chairman of the board 30 0	0	0	0
Mark Silber  160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	trustee 1 0	0	0	0
Gerald Fischbach  160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	trustee/Chief Scientist 40 0	540,870	54,011	0
David Eisenbud  160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	trustee 1 0	0	0	0
Margaret Hamburg  160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	Trustee 1 0	0	0	0
Maria Adler thru 102016  160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	cfo/treasurer/secretary 32 0	234,769	48,222	0
Marlow Kee AS OF 72016  160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	CFO/Secretary 40 0	227,542	30,903	0

TY 2016 Accounting Fees Schedule**Name:** THE SIMONS FOUNDATION INC**EIN:** 13-3794889

Category	Amount	Net Investment Income	Adjusted Net Income	Disbursements for Charitable Purposes
ACCOUNTING FEES	50,289	0	0	86,000

TY 2016 Compensation Explanation**Name:** THE SIMONS FOUNDATION INC**EIN:** 13-3794889

Person Name	Explanation
Gerald Fischbach	CHIEF SCIENTIST, GERALD FISCHBACH, UNDERTAKES A DUAL ROLE AT THE SIMONS FOUNDATION THE COMPENSATION REPORTED ON THE FORM 990-PF IS PAID FOR SERVICES RENDERED AS AN EMPLOYEE OF THE FOUNDATION DR FISCHBACH IS NOT COMPENSATED IN HIS CAPACITY AS A BOARD DIRECTOR

Note: To capture the full content of this document, please select landscape mode (11" x 8.5") when printing.

TY 2016 Depreciation Schedule

Name: THE SIMONS FOUNDATION INC

EIN: 13-3794889

TY 2016 Investments - Other Schedule**Name:** THE SIMONS FOUNDATION INC**EIN:** 13-3794889

Category/ Item	Listed at Cost or FMV	Book Value	End of Year Fair Market Value
HEDGE FUNDS	FMV	863,070,612	863,070,612
PRIVATE EQUITY FUNDS	FMV	234,842,732	234,842,732
INVESTMENT IN SUBSIDIARY	FMV	1,598,587,027	1,598,587,027

TY 2016 Legal Fees Schedule**Name:** THE SIMONS FOUNDATION INC**EIN:** 13-3794889

Category	Amount	Net Investment Income	Adjusted Net Income	Disbursements for Charitable Purposes
LOEB, BLOCK & PARTNERS	92,791	0	0	86,534
WINSTON & STRAWN	4,090			63,908
COOLEY LLP	105,735			102,824
BRODY & BROWN, LLP	95,749			95,749
SCHANER & LUBITZ, PLLC	15,250			19,513
FRAGOMEN, DEL REY, BERNSEN,				
LOEWY LLP	65,819			65,819
BRIEF CARMEN & KLEIMAN LLP	114			2,044
DRINKER BIDDLE & REATH LLP	10,532			10,532
PRINCE LOBEL TYE LLP	1,609			1,609
ROSENBERG & ESTIS, P C	37,197			24,285
TEMPORARY LEGAL CONSULTANT	70,788			69,138

TY 2016 Other Assets Schedule**Name:** THE SIMONS FOUNDATION INC**EIN:** 13-3794889**Other Assets Schedule**

Description	Beginning of Year - Book Value	End of Year - Book Value	End of Year - Fair Market Value
DUE FROM THIRD PARTIES	991,640	307,986	307,986
DUE FROM AFFILIATES	40,179	9,799	9,799

TY 2016 Other Decreases Schedule

Name: THE SIMONS FOUNDATION INC
EIN: 13-3794889

Description	Amount
CURRENCY LOSS	17,238

TY 2016 Other Expenses Schedule

Name: THE SIMONS FOUNDATION INC

EIN: 13-3794889

Other Expenses Schedule

Description	Revenue and Expenses per Books	Net Investment Income	Adjusted Net Income	Disbursements for Charitable Purposes
INFORMATION TECHNOLOGY	2,657,175	0	0	2,496,741
COMMUNICATION EXPENSE	2,373,510			2,316,294
INVESTMENT EXPENSES FROM LPS		8,306,350		
OFFICE EXPENSES	2,004,800			1,846,244
PROGRAM SUPPORT SERVICE	6,125,836			6,858,463
GENOME SEQUENCING	7,885,635			12,705,434
HONORARIUM EXPENSES	415,255			454,855
INSURANCE	350,032			529,988
LEASE INCENTIVE	693,182			693,182

TY 2016 Other Income Schedule**Name:** THE SIMONS FOUNDATION INC**EIN:** 13-3794889**Other Income Schedule**

Description	Revenue And Expenses Per Books	Net Investment Income	Adjusted Net Income
Rebates	30,643	0	0
Ordinary Income from Investments in			
Limited Partnerships	0	8,308,452	0
Unrelated Business Loss (Investment)			
reported on Form 990-T	0	629,172	0

TY 2016 Other Increases Schedule**Name:** THE SIMONS FOUNDATION INC**EIN:** 13-3794889

Description	Amount
UNREALIZED GAINS ON INVESTMENT	134,458,849
NET UNREALIZED GAIN ON INVESTMENT IN	0
100% OWNED SUBSIDIARY	151,133,694

TY 2016 Other Liabilities Schedule**Name:** THE SIMONS FOUNDATION INC**EIN:** 13-3794889

Description	Beginning of Year - Book Value	End of Year - Book Value
DEFERRED EXCISE TAX LIABILITY	17,842,402	20,638,967
DEFERRED RENT LIABILITY	4,159,666	3,621,571
CAPITAL LEASE LIABILITY	0	147,834,375

TY 2016 Other Professional Fees Schedule**Name:** THE SIMONS FOUNDATION INC**EIN:** 13-3794889

Category	Amount	Net Investment Income	Adjusted Net Income	Disbursements for Charitable Purposes
HUMAN RESOURCES CONSULTING	380,468	0	0	365,680
RECRUITING FEES	601,680			585,108
EMPLOYEE TRAINING/DEVELOPMENT	143,116			177,216
PAYROLL SERVICES	34,584			34,584
MANAGEMENT CONSULTING	408,596			408,596
MISCELLANEOUS CONSULTING	423,311			399,779

TY 2016 Taxes Schedule**Name:** THE SIMONS FOUNDATION INC**EIN:** 13-3794889

Category	Amount	Net Investment Income	Adjusted Net Income	Disbursements for Charitable Purposes
FEDERAL EXCISE TAXES	4,751,486			
UNRELATED BUSINESS INCOME TAX	897,618			
STATE WITHHOLDING TAXES	256,587	256,587	0	0
FOREIGN TAXES		122,158	0	0

TY 2016 TransfersToControlledEntities**Name:** THE SIMONS FOUNDATION INC**EIN:** 13-3794889

Name	US / Foreign Address	EIN	Description	Amount
Helicoid Investment limited	C/O HAMILTON TRUST MGMT CO LTD PALM GROVE HOUSE ROAD TOWN, TORTOLA, BVI CJ	99-0688931	NO TRANSFERS	0
Clinical Research Associates LLC	160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	46-3285474	grant	1,750,000
Foundation Associates LLC	160 FIFTH AVENUE 7TH FLOOR NEW YORK, NY 10010	46-3285543	grant	1,000,000
Total				2,750,000

Schedule B (Form 990, 990-EZ, or 990-PF) Department of the Treasury Internal Revenue Service	Schedule of Contributors ▶ Attach to Form 990, 990-EZ, or 990-PF ▶ Information about Schedule B (Form 990, 990-EZ, or 990-PF) and its instructions is at <u>www.irs.gov/form990</u>	OMB No 1545-0047 2016
	Name of the organization THE SIMONS FOUNDATION INC	Employer identification number 13-3794889

Organization type (check one)

Filers of:	Section:
Form 990 or 990-EZ	☐ 501(c)() (enter number) organization
	☐ 4947(a)(1) nonexempt charitable trust not treated as a private foundation
	☐ 527 political organization
Form 990-PF	☒ 501(c)(3) exempt private foundation
	☐ 4947(a)(1) nonexempt charitable trust treated as a private foundation
	☐ 501(c)(3) taxable private foundation

Check if your organization is covered by the **General Rule** or a **Special Rule**.
Note. Only a section 501(c)(7), (8), or (10) organization can check boxes for both the General Rule and a Special Rule. See instructions.

General Rule

☒ For an organization filing Form 990, 990-EZ, or 990-PF that received, during the year, contributions totaling \$5,000 or more (in money or other property) from any one contributor. Complete Parts I and II. See instructions for determining a contributor's total contributions.

Special Rules

☐ For an organization described in section 501(c)(3) filing Form 990 or 990-EZ that met the 33¹/₃% support test of the regulations under sections 509(a)(1) and 170(b)(1)(A)(vi), that checked Schedule A (Form 990 or 990-EZ), Part II, line 13, 16a, or 16b, and that received from any one contributor, during the year, total contributions of the greater of (1) \$5,000 or (2) 2% of the amount on (i) Form 990, Part VIII, line 1h, or (ii) Form 990-EZ, line 1. Complete Parts I and II.

☐ For an organization described in section 501(c)(7), (8), or (10) filing Form 990 or 990-EZ that received from any one contributor, during the year, total contributions of more than \$1,000 *exclusively* for religious, charitable, scientific, literary, or educational purposes, or for the prevention of cruelty to children or animals. Complete Parts I, II, and III.

☐ For an organization described in section 501(c)(7), (8), or (10) filing Form 990 or 990-EZ that received from any one contributor, during the year, contributions *exclusively* for religious, charitable, etc., purposes, but no such contributions totaled more than \$1,000. If this box is checked, enter here the total contributions that were received during the year for an *exclusively* religious, charitable, etc., purpose. Do not complete any of the parts unless the **General Rule** applies to this organization because it received *nonexclusively* religious, charitable, etc., contributions totaling \$5,000 or more during the year. . . . ▶ \$ _____

Caution. An organization that is not covered by the General Rule and/or the Special Rules does not file Schedule B (Form 990, 990-EZ, or 990-PF), but it **must** answer "No" on Part IV, line 2, of its Form 990, or check the box on line H of its Form 990-EZ or on its Form 990PF, Part I, line 2, to certify that it does not meet the filing requirements of Schedule B (Form 990, 990-EZ, or 990-PF).

Name of organization THE SIMONS FOUNDATION INC	Employer identification number 13-3794889
--	---

Part I	Contributors (see instructions) Use duplicate copies of Part I if additional space is needed		
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
1	James and Marilyn Simons 160 5th Avenue 7th Floor New York, NY10010	\$ 80,000,000	Person ☒ Payroll ☐ Noncash ☐ (Complete Part II for noncash contributions)
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
-		\$	Person ☐ Payroll ☐ Noncash ☐ (Complete Part II for noncash contributions)
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
-		\$	Person ☐ Payroll ☐ Noncash ☐ (Complete Part II for noncash contributions)
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
-		\$	Person ☐ Payroll ☐ Noncash ☐ (Complete Part II for noncash contributions)
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
-		\$	Person ☐ Payroll ☐ Noncash ☐ (Complete Part II for noncash contributions)
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
-		\$	Person ☐ Payroll ☐ Noncash ☐ (Complete Part II for noncash contributions)
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
-		\$	Person ☐ Payroll ☐ Noncash ☐ (Complete Part II for noncash contributions)
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
-		\$	Person ☐ Payroll ☐ Noncash ☐ (Complete Part II for noncash contributions)

Employer identification number

13-3794889

Part II	Noncash Property
---------	------------------

[illegible]

Name of organization THE SIMONS FOUNDATION INC	Employer identification number 13-3794889
--	---

Part III	Exclusively religious, charitable, etc., contributions to organizations described in section 501(c)(7), (8), or (10) that total more than \$1,000 for the year from any one contributor. Complete columns (a) through (e) and the following line entry. For organizations completing Part III, enter the total of exclusively religious, charitable, etc., contributions of \$1,000 or less for the year. (Enter this information once. See instructions.) ▶ \$ _____ Use duplicate copies of Part III if additional space is needed
-----------------	--

(a) No. from Part I	(b) Purpose of gift	(c) Use of gift	(d) Description of how gift is held
	(e) Transfer of gift		
	Transferee's name, address, and ZIP 4		Relationship of transferor to transferee
(a) No. from Part I	(b) Purpose of gift	(c) Use of gift	(d) Description of how gift is held
	(e) Transfer of gift		
	Transferee's name, address, and ZIP 4		Relationship of transferor to transferee
(a) No. from Part I	(b) Purpose of gift	(c) Use of gift	(d) Description of how gift is held
	(e) Transfer of gift		
	Transferee's name, address, and ZIP 4		Relationship of transferor to transferee
(a) No. from Part I	(b) Purpose of gift	(c) Use of gift	(d) Description of how gift is held
	(e) Transfer of gift		
	Transferee's name, address, and ZIP 4		Relationship of transferor to transferee

The Simons Foundation, Inc.
Form 990-PF - Return of Private Foundation
FYE: 12/31/2016
Attachment 21

Part I, Line 19- Depreciation

Depreciation expense	<u><u>3,534,459</u></u>
----------------------	-------------------------

Part II, Line 14 - Fixed Assets

	<u>Cost</u>	<u>Accumulated Depreciation</u>	<u>Net Fixed Assets</u>
Leased Building	149,085,336	-	149,085,336
Leasehold improvements	24,034,542	(8,709,590)	15,324,952
Furniture & Fixtures	1,557,208	(1,190,804)	366,404
Computer & IT Equipment	7,004,996	(2,375,893)	4,629,103
Art and Collections	1,369,782		1,369,782
Business Software	344,362	(227,652)	116,710
Construction In Progress	35,691,447	-	35,691,447
	<u><u>219,087,672</u></u>	<u><u>(12,503,939)</u></u>	<u><u>206,583,733</u></u>

The Simons Foundation

EIN#: 13-3794889

Form 990-PF

FYE: 12/31/2016

Form 990-PF, Part IX-A

Summary of Direct Charitable Activities

1. **\$16,409,997** The Simons Foundation Autism Research Initiative seeks to improve understanding, diagnosis and treatment of autism spectrum disorders by funding scientific research of the highest quality and relevance. It also provides resources to scientists, supports other organizations with allied goals, and holds conferences, lectures & meetings to further scientific understanding of autism.
2. **\$1,459,804** The Mathematics and Physical Sciences division supports basic science in the areas of mathematics, theoretical computer science and theoretical physics by supporting researchers in those areas and by organizing conferences, meetings, lectures and symposia on relevant topics.
3. **\$1,726,881** The Life Sciences division supports basic research in the life sciences and supports scientific collaborations designed to deepen understanding of the processes that led to the emergence of life in the universe and of the biology, ecology, and biogeochemistry of microbial processes in the oceans.
4. **\$9,116,065** The Flatiron Institute began operations on December 1, 2016. This new in-house research division of the Simons Foundation advances scientific research through computational methods, including data analysis, modeling and simulation. There are almost 100 employee-scientists working at the institute as of the date of this submission.

Recipient Name	Recipient Address	Status	Purpose of Grant	Amount Paid
15/221 - University of Pennsylvania	Office of Research Services 3451 Walnut Street, Room P-221 Philadelphia, PA 19104	PC	Simons Investigator in Physics	\$132,000
Adirondack Mountain Club	814 Goggins Road Lake George, NY 12845	PC	Employee matching	\$500
Administrators of the Tulane Educational Fund	Tulane University Office of Research Admin 7029 A Freret Street New Orleans, LA 70118	PC	Ordinary and symbolic powers of homogeneous ideals	\$7,000
Administrators of the Tulane Educational Fund	Tulane University Office of Research Admin 7029 A Freret Street New Orleans, LA 70118	PC	Collaboration Grant for Mathematicians at Tulane University	\$7,000
Adventurers and Scientists for Conservation Inc	PO Box 1834 Bozeman, MT 59771	PC	A New Tool for Conservation	\$500,294
Agnes Scott College	141 E College Ave Decatur, GA 30030	PC	Index systems and topological dynamics	\$7,000
Albert Einstein College of Medicine, Inc	1300 Morris Park Avenue Belfer 312 Bronx, NY 10461	PC	Nonlinear Elliptic PDEs and Integral Systems	\$7,000
Albert Einstein College of Medicine, Inc	1300 Morris Park Avenue Belfer 312 Bronx, NY 10461	PC	Genetic rescue of a mouse model of Fragile X by targeted deletion of RICTOR	\$70,000
Albert Einstein College of Medicine, Inc	1300 Morris Park Avenue Belfer 312 Bronx, NY 10461	PC	Corticocortical signaling between populations of neurons - Project 1	\$116,237
Albert-Ludwigs University of Freiburg	Fahnenbergplatz Freiburg, 79085	NC	Special Holonomy in Geometry, Analysis, and Physics	\$83,656
Alice Fong Yu Parents Association	1541 12th Avenue San Francisco, CA 94122	PC	Employee Matching	\$1,000
Alzheimer's Association	225 N Michigan Avenue Chicago, IL 60601-7633	PC	Employee Matching	\$1,000
American Academy of Arts and Sciences	Norton's Woods 136 Irving Street Cambridge, MA 02138	PC	AAAS Annual Fund	\$25,000
American Association for the Advancement of Science	1200 New York Avenue, NW Washington, DC 20005	PC	Wikipedia Year of Science Edit-a-thons	\$10,000
American Cancer Society	173 Old Town Road Staten Island, NY 10305	PC	Employee Matching	\$100
American Civil Liberties Union Foundation Inc	125 Broad Street 18th Floor New York, NY 10004	PC	Employee Matching	\$800
American Mathematical Society	201 Charles Street Providence, RI 02904	PC	AMS-Simons Travel Grants	\$294,000
American Museum of Natural History	Central Park West 79th Street NY, NY 10024	PC	A Comparative Genomics Approach to Global Eukaryotic Phylogeny and Evolutionary Transitions in Nutritional Modes	\$368,479
American Museum of Natural History	Central Park West 79th Street NY, NY 10024	PC	Ancient metabolism Austerity and the art of the steal	\$130,209
American Museum of Natural History	Central Park West 79th Street NY, NY 10024	PC	Employee Matching	\$280
American Society for Biochemistry and Molecular Biology	11200 Rockville Pike, Suite 302 Rockville, MD 20852	PC	Wikipedia Year of Science Edit-a-thon	\$4,210
American Society for Cell Biology	8120 Woodmont Ave, Suite 750 Bethesda, MD 20814-2762	PC	2016 ASCB Annual Meeting	\$9,573
American Society for Microbiology	1752 N Street N W , DC 20036	PC	Wikipedia Year of Science Edit-a-thon	\$5,570
American Society for the Prevention of Cruelty to Animals	424 E 92nd Street New York, NY 10128	PC	Employee Matching	\$110
Amsterdam Nursing Home Corporation	1060 Amsterdam Ave New York, NY 10025	PC	Employee Matching	\$200
Animal Legal Defense Fund	525 East Cotati Avenue Cotati, CA 94931	PC	Employee Matching	\$100
ARC of Westchester	265 Saw Mill River Road Hawthorne, NY 10532	PC	Employee Matching	\$600
Arizona Board of Regents, University of Arizona	P O Box 210158, Room 510 Tucson, AZ 85721-0158	PC	From Integrable Systems to Hyperkaehler Geometry via String Theory	\$7,000
Arizona Board of Regents, University of Arizona	P O Box 210158, Room 510 Tucson, AZ 85721-0158	PC	Integral p-adic Hodge theory and geometry	\$7,000
Arizona Board of Regents, University of Arizona	P O Box 210158, Room 510 Tucson, AZ 85721-0158	PC	InSCOPE Integrating high-resolution, spatial, and temporal 'omics data with environmental data from SCOPE cruises	\$147,783
Arizona State University Foundation	P O Box 2260 Tempe, AZ 85280-2260	PC	Complex hyperbolic discrete groups and lattices	\$7,000

Arizona State University Foundation	P O Box 2260 Tempe, AZ 85280-2260	PC	Research on virus dynamics	\$7,000
Arizona State University Foundation	P O Box 2260 Tempe, AZ 85280-2260	PC	Collaboration on problems in algebraic combinatorics	\$7,000
ARTfront	WAGMAG, Brooklyn Art Guide 147 Roebling Street, Ground Floor Brooklyn, NY 11211	PC	Employee Matching	\$800
Asian American Journalists Association	5 Third Street, Suite 1108 San Francisco, CA 94103	PC	Employee Matching	\$200
Aspen Center for Physics	700 W Gillespie Street Aspen, CO 81611	PC	Aspen Summer Program	\$100,000
Auburn University	310 Samford Hall Auburn University, AL 36849	PC	Stochastic dynamical systems arising from the applied sciences	\$7,000
Autism Resource Outreach Center	322 Main Street, Suite 501 Little Rock, AR 72201	PC	SPARK Community Partner Evaluation for Pilot	\$2,500
Autism Science Foundation	28 West 39th Street, #502 New York, NY 10018	PC	Employee Matching	\$300
Autism Science Foundation	28 West 39th Street, #502 New York, NY 10018	PC	Employee Matching	\$200
Autism Society of America, Autism Society the Heartland	Autism Society the Heartland 10563 Lackman Rd Lenexa, KS 66219	PC	SPARK Community Partner Evaluation for Pilot	\$2,500
Ball State University	2000 University Avenue Muncie, IN 47306	PC	Collaboration Grant Proposal	\$7,000
Ball State University	2000 University Avenue Muncie, IN 47306	PC	Collaboration Grant – Complex Dynamics	\$7,000
Ball State University	2000 University Avenue Muncie, IN 47306	PC	Invariants of Legendrian knots	\$7,000
Bargemusic, Ltd	Fulton Ferry Landing Brooklyn, NY 11201	PC	Employee Matching	\$800
Barnard College	3009 Broadway New York, NY 10027	PC	Braids, links and mapping class groups	\$7,000
Baruch College, The City University of New York	One Bernard Baruch Way Box J-1010 New York, NY 10010-5585	PC	Employee Matching	\$200
Baton Rouge Area Foundation	100 NORTH STREET, SUITE 900 Baton Rouge, LA 70802	PC	Employee Matching	\$200
Baylor College of Medicine	One Baylor Plaza MS BCM 310 Houston, TX 77030	PC	Simons Variation in Individuals Project (VIP) Site	\$11,192
Baylor College of Medicine	One Baylor Plaza MS BCM 310 Houston, TX 77030	PC	Catching fireflies Dynamic neural computations for foraging	\$400,000
Baylor College of Medicine	One Baylor Plaza MS BCM 310 Houston, TX 77030	PC	In Vivo Functional Analysis of Autism Candidate Genes	\$246,532
Baylor College of Medicine	One Baylor Plaza MS BCM 310 Houston, TX 77030	PC	SPARK at Baylor College of Medicine	\$150,000
Baylor College of Medicine	One Baylor Plaza MS BCM 310 Houston, TX 77030	PC	Canonical Computations in Autism	\$137,070
Baylor College of Medicine	One Baylor Plaza MS BCM 310 Houston, TX 77030	PC	Simons Simplex Collection Support Grant	\$10,000
Baylor University	One Bear Place #97360 Waco, TX 76798-7360	PC	Quantum statistics of networks collaboration	\$7,000
Baylor University	One Bear Place #97360 Waco, TX 76798-7360	PC	Rank One Perturbations, Anderson-type Hamiltonians and Cyclic Vectors	\$7,000
Baylor University	One Bear Place #97360 Waco, TX 76798-7360	PC	Fourier multipliers on von Neumann algebras	\$7,000
Behind the Book	216 West 135th Street New York, NY 10030	PC	Employee Matching	\$309
Bergen Catholic High School	1040 Oradell Ave Oradell, NJ 07649	PC	Employee Matching	\$200
Bigelow Laboratory for Ocean Sciences	60 Bigelow Drive PO Box 461 East Boothbay, ME 04544	PC	Large-scale study of the genomic building blocks of marine bacterioplankton	\$1,742,217
Bilkent University	Bilkent Universitesi Ankara, 06800	NC	Spatio-Temporal Gene Discovery for Autism Spectrum Disorder	\$70,000
BioBus, Inc (Formerly Cell Motion Laboratories, Inc)	1361 Amsterdam Ave, Suite 340 New York, NY 10027	PC	BioBus + Base Harlem R&D Challenge Grant	\$500,000
Board of Regents of the University of Nebraska, University of Nebraska at Omaha	6001 Dodge Street Omaha, NE 68182-0210	PC	Collaborations in Statistics and Data Analysis	\$7,000
Board of Regents of the University of Nebraska, University of Nebraska-Lincoln	2200 Vine Street 151 Prem S Paul Research Center Lincoln, NE 68583-0861	PC	Operator Algebras and Extensions of Inverse Semigroups	\$7,000
Board of Regents of the University of Nebraska, University of Nebraska-Lincoln	2200 Vine Street 151 Prem S Paul Research Center Lincoln, NE 68583-0861	PC	Singularity categories, K-theory and A-infinity-algebras	\$7,000

Board of Regents of the University of Nebraska, University of Nebraska-Lincoln	2200 Vine Street 151 Prem S Paul Research Center Lincoln, NE 68583-0861	PC	Collaboration on homology and representation theory of local rings	\$7,000
Board of Regents of the University of Nebraska, University of Nebraska-Lincoln	2200 Vine Street 151 Prem S Paul Research Center Lincoln, NE 68583-0861	PC	Extremal Problems for Enumerative Graph Parameters	\$7,000
Board of Regents of the University of Nebraska, University of Nebraska-Lincoln	2200 Vine Street 151 Prem S Paul Research Center Lincoln, NE 68583-0861	PC	Nonlocal Models in Continuum Mechanics	\$7,000
Board of Regents, NSHE, obo University of Nevada, Reno	1664 N Virginia St 204 Ross Hall/MS 325 Reno, NV 89557-0325	PC	Heegaard Floer homology and Dehn surgery obstructions	\$7,000
Board of Regents, NSHE, obo University of Nevada, Reno	1664 N Virginia St 204 Ross Hall/MS 325 Reno, NV 89557-0325	PC	Twisted groupoid C^* -algebras and higher rank graphs	\$7,000
Board of Trustees of Western Illinois University	1 University Circle Macomb, IL 61455	PC	Valued o-minimal fields, measures, and residue field domination	\$7,000
Boise State University	1910 University Dr Boise, ID 83725	PC	Commutative Algebra and Waring Rank	\$7,000
Botswana International University of Science and Technology	Private Bag 16 Palapye, 267	NC	Research Graduate Studies in Mathematics and its Applications A Network Approach	\$103,521
Bowdoin College	5800 College Station Brunswick, ME 04530	PC	Geometry and quasi-isometry classification of some self-similar groups	\$7,000
Bowling Green State University	400 E Poe Rd Bowling Green, OH 43403	PC	Quasimetrics of nilpotent and solvable Lie groups	\$7,000
Bradley Hospital	1011 Veterans Memorial Parkway East Providence, RI 02915-5061	PC	Rhode Island population and genetics study of autism and intellectual disability	\$123,095
Brandeis University	Office of Research Administration 415 South Street, MS-116 Waltham, MA 02454	PC	Critical Phenomena in Random Matrix Theory and Universality	\$7,000
Brandeis University	Office of Research Administration 415 South Street, MS-116 Waltham, MA 02454	PC	Critical Phenomena in Random Matrix Theory	\$7,000
Brandeis University	Office of Research Administration 415 South Street, MS-116 Waltham, MA 02454	PC	Disrupted Homeostatic Synaptic Plasticity in Autism Spectrum Disorders	\$250,000
Brandeis University	Office of Research Administration 415 South Street, MS-116 Waltham, MA 02454	PC	Homological Mirror Symmetry and Applications	\$79,460
Brandeis University	Office of Research Administration 415 South Street, MS-116 Waltham, MA 02454	PC	It from Qubit Quantum Fields, Gravity, and Information	\$125,000
Brandeis University	Office of Research Administration 415 South Street, MS-116 Waltham, MA 02454	PC	Building a Proportional Cell Design Principles of Biological Size Control	\$97,624
Brandeis University	Office of Research Administration 415 South Street, MS-116 Waltham, MA 02454	PC	Enumerative Combinatorics	\$7,000
Brigham and Women's Hospital, Inc	75 Francis Street Boston, MA 02115	PC	Dissecting primary motor cortex circuit dysfunction in a mouse model of MeCP2 duplication syndrome	\$137,500
Brigham Young University	Brigham Young University A-285 ASB Campus Drive Provo, UT 84602	PC	Entropy for Smooth Dynamical Systems	\$7,000
Brigham Young University	Brigham Young University A-285 ASB Campus Drive Provo, UT 84602	PC	Wild Topology, Attractors and Algebraic invariants	\$7,000
Brigham Young University	Brigham Young University A-285 ASB Campus Drive Provo, UT 84602	PC	Weakly Holomorphic Modular Forms	\$7,000
Brigham Young University	Brigham Young University A-285 ASB Campus Drive Provo, UT 84602	PC	Prime numbers in arithmetic progressions	\$7,000
Broad Institute, Inc	415 Main Street Cambridge, MA 02142	PC	Pieces of the Puzzle Uncovering the Genetics of Autism	\$3,865,408
Broad Institute, Inc	415 Main Street Cambridge, MA 02142	PC	Cellular models for autism de novo mutations using human stem cells	\$250,000
Brooklyn Rail Inc	95 Commercial Street, Suite 2 Brooklyn, NY 11222	PC	Employee Matching	\$500
Brown University	Office of Sponsored Projects Brown University 164 Angell Street, Box 1929 Providence, RI 02912	PC	Research in Arithmetic and Algebraic Dynamics	\$7,000

Brown University	Office of Sponsored Projects Brown University 164 Angell Street, Box 1929 Providence, RI 02912	PC	Simons Investigator in Mathematics	\$132,000
Brown University	Office of Sponsored Projects Brown University 164 Angell Street, Box 1929 Providence, RI 02912	PC	Use of High-throughput Splicing Assays to Prioritize Autism Gene Candidates	\$127,500
Brown University	Office of Sponsored Projects Brown University 164 Angell Street, Box 1929 Providence, RI 02912	PC	Simons Investigator in Physics	\$132,000
Brown University	Office of Sponsored Projects Brown University 164 Angell Street, Box 1929 Providence, RI 02912	PC	Problems in Geometry and Dynamics	\$132,000
Brown University	Office of Sponsored Projects Brown University 164 Angell Street, Box 1929 Providence, RI 02912	PC	Assessing thalamocortical circuit function in TSC1 and NHE6 mouse models	\$75,000
Bucknell University	Lowry House, Room 205 Lewisburg, PA 17837	PC	Blaschke products Approximation, Interpolation and Geometry	\$7,000
Bucknell University	Lowry House, Room 205 Lewisburg, PA 17837	PC	Symmetric function positivity and the Mobius function of the pattern poset	\$7,000
Bucknell University	Lowry House, Room 205 Lewisburg, PA 17837	PC	Classical groups and their geometries	\$7,000
Bucknell University	Lowry House, Room 205 Lewisburg, PA 17837	PC	Languages and Geometry of Automorphisms of Groups	\$7,000
CA - 166/205 - Stanford University	300 Pasteur Dr, H3143 Stanford, CA 94305-5236	PC	Scientific computation management for neuroimaging (SCM)	\$249,187
CA - 166/205 - Stanford University	300 Pasteur Dr, H3143 Stanford, CA 94305-5236	PC	Scientific computation management for neuroimaging (SCM) SPLIT	\$100,000
CA - 29/248 - University of California at San Francisco	3333 California Street, Suite 315 University of California Box 0692 San Francisco, CA 94143-0962	PC	Behavioral effects of fever and other illness on young children with autism - Project 1	\$90,000
California Council on Science and Technology	1130 K Street, Suite 280 Sacramento, CA 95814-3965	PC	Fellowship and Workshop Support	\$100,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Simons Investigator in Physics	\$66,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	A probiotic therapy for autism	\$250,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Understanding visual object coding in the macaque brain	\$300,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Neural computation of innate defensive behavioral decisions	\$250,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Life from inside out connecting geodynamics to the origins of life	\$114,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Privacy-Preserving Algorithms for Economic Problems	\$24,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Analysis of autism-associated alleles in C elegans	\$230,986
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Simons Investigator in Computer Science	\$132,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Simons Investigator in Physics	\$132,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Automorphic Forms from analytic and geometric perspectives	\$95,592

California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Novel technology for behavioral phenotyping of autism mouse models	\$75,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Simons Investigator in Physics	\$66,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Simons Investigator in Physics	\$66,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Simons Investigator in Mathematics	\$66,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	Group actions Invariant Random Subgroups, Entropy and Genericity	\$7,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	International Geobiology Course	\$108,000
California Institute of Technology	1200 E California Blvd M/C 273-6 Pasadena, CA 91125	PC	SFARI SURF at Caltech	\$20,000
California State University, Fresno Foundation	4910 N Chestnut Ave Fresno, CA 93726-1852	PC	Knot theory and its connections to combinatorics and algebra	\$7,000
CARE	Gift Match/Lorraine Washington 151 Ellis Street, NE Atlanta, GA 30303	PC	Employee Matching	\$3,200
Carnegie Institution of Washington	1530 P Street NW Washington, DC 20005-1910	PC	Experimental and Theoretical Studies of Hadean and Arcean Geochemical and Mineralogical Environment (SCOL Collaborative Studies Funding Blackmond 287625)	\$25,000
Carnegie Mellon University	5000 Forbes Ave, WQED Bldg Pittsburgh, PA 15213	PC	Random Structures and Algorithms	\$132,000
Carnegie Mellon University	5000 Forbes Ave, WQED Bldg Pittsburgh, PA 15213	PC	Hardness of Approximation and Convex Hierarchies	\$24,000
Carnegie Mellon University	5000 Forbes Ave, WQED Bldg Pittsburgh, PA 15213	PC	Corticocortical signaling between populations of neurons - Core	\$113,300
Carnegie Mellon University	5000 Forbes Ave, WQED Bldg Pittsburgh, PA 15213	PC	Theoretical Study of a few PDEs and Probabilistic Problems in Applied Math	\$107,148
Carnegie Mellon University	5000 Forbes Ave, WQED Bldg Pittsburgh, PA 15213	PC	Analysis of moving interface problems dynamics, stability, and asymptotics	\$7,000
Carnegie Mellon University	5000 Forbes Ave, WQED Bldg Pittsburgh, PA 15213	PC	White House Frontiers Conference	\$10,000
Carnegie Mellon University	5000 Forbes Ave, WQED Bldg Pittsburgh, PA 15213	PC	Interactome perturbation by large-scale mutagenesis to find risk variants - Project 2	\$15,518
Case Western Reserve University	10900 Euclid Avenue Cleveland, OH 44106-4919	PC	Molecular and Pharmacological Rescue of 16p11 Del Phenotype with MAPK/ERK Inhibitor in Mice	\$125,000
Case Western Reserve University	10900 Euclid Avenue Cleveland, OH 44106-4919	PC	Probability and Geometry	\$7,000
Case Western Reserve University	10900 Euclid Avenue Cleveland, OH 44106-4919	PC	Cellular Blebbing and Amoeboid Cell Migration	\$7,000
Case Western Reserve University - School of Medicine	10900 Euclid Avenue Cleveland, OH 44106-4919	PC	A Novel Transcriptional Cascade Involved in Brain Overgrowth in ASD	\$35,000
Cathedral Church of St John the Divine	1047 Amsterdam Avenue New York, NY 10025	PC	Employee Matching	\$200
Central Michigan University	Office of Research and Graduate Studies Central Michigan University 251 Foust Hall Mount Pleasant, MI 48859	PC	Complex analysis on piecewise-smooth domains	\$7,000
Central Michigan University	Office of Research and Graduate Studies Central Michigan University 251 Foust Hall Mount Pleasant, MI 48859	PC	Crystals and Combinatorics	\$7,000
Centre de Recerca Matematica	Campus de Bellaterra, Edifici C 08193 Bellaterra Barcelona, 08193	NC	Simons Visiting Program	\$55,000
Charite Universitätsmedizin Berlin	Hindenburgdamm 30 Berlin,12200	NC	Convergent signaling pathways linking PTEN and MeCP2, two risk genes for autism spectrum disorders	\$67,200
Charles A and Anne Morrow Lindbergh Foundation	P O Box 861 Berkeley Springs, WV 25411	PC	Employee Matching	\$100
Child Mind Institute	330 Madison Avenue New York, NY 10017	PC	Employee matching	\$500
Children of Promise, NYC	54 MacDonough Street Brooklyn, NY 11216	PC	Employee Matching	\$10,000

Children's Hospital of Fudan University	Children's Hospital of Fudan University 399 Wanyuan Rd Minhang District Shanghai	NC	2015 Asia Pacific Regional-IMFAR Meeting	\$5,000
Children's Hospital Boston	300 Longwood Avenue Boston, MA 02115	PC	State-dependent influences on retinogeniculate ensemble activity	\$78,000
Children's Hospital Boston	300 Longwood Avenue Boston, MA 02115	PC	Boston Children's Hospital Clinical Site for the National Autism Cohort	\$150,000
Children's Hospital Boston	300 Longwood Avenue Boston, MA 02115	PC	Development of corticothalamic circuits of prefrontal cortex in mouse models of autism	\$75,000
Children's Hospital Boston	300 Longwood Avenue Boston, MA 02115	PC	Amniotic fluid and Cerebrospinal fluid-based signaling in ASD	\$75,000
Children's Hospital Boston	300 Longwood Avenue Boston, MA 02115	PC	Quantification of Learning Algorithm Performance to Inputs of Variable Complexity Implications for Emotional Intelligence in Autism Spectrum Disorder	\$15,791
Cincinnati Children's Hospital Medical Center - Research Foundation	3333 Burnet Avenue Cincinnati, OH 45229	PC	Cincinnati Children's- Simons SFARI Autism Cohort Submission	\$149,995
City Harvest	575 Eighth Avenue, 4th Floor, New York, NY 10018	PC	Employee Matching	\$600
City Harvest	575 Eighth Avenue, 4th Floor, New York, NY 10018	PC	Employee Matching	\$110
City Lore	56 East First Street New York, NY 10003	PC	Oliver Sacks Film	\$205,000
Claremont Graduate University	150 East Tenth St Claremont, CA 91711	PC	Analysis of Systems Modelling the Spreading of Surfactant on Thin Films	\$7,000
Claremont McKenna College	400 N Claremont Boulevard Claremont, CA 91711	PC	Sam Nelson Collaboration	\$7,000
Clarkson University	8 Clarkson Avenue, CU Box 5630 Potsdam, NY 136995630	PC	Collaborative Research on Complex Networks and Complex Systems	\$7,000
Clemson University	Clemson University Research Division Strom Thurmond Institute, Suite 200 230 Kappa Street Clemson, SC 29634	PC	Derivatives of Eisenstein Series	\$7,000
Clemson University	Clemson University Research Division Strom Thurmond Institute, Suite 200 230 Kappa Street Clemson, SC 29634	PC	Dynamics on Panov planes and applications	\$7,000
Clemson University	Clemson University Research Division Strom Thurmond Institute, Suite 200 230 Kappa Street Clemson, SC 29634	PC	Robust Mathematical Approach towards Ocean Modeling	\$7,000
Clemson University	Clemson University Research Division Strom Thurmond Institute, Suite 200 230 Kappa Street Clemson, SC 29634	PC	Toric partial orders theory and applications	\$7,000
Cleveland State University	2121 Euclid Avenue, PH220 Cleveland, OH 44115-2214	PC	Problems in Topology and Geometry	\$7,000
CNRS Regional Delegation Languedoc-Roussillon	1919, Route de Mende Montpellier, F-34293	NC	Coevolution of RNA and Peptides – Connecting the activation processes	\$85,000
Coalition for the Homeless	129 Fulton Street New York, NY 10038	PC	Employee Matching	\$110
Cold Spring Harbor Laboratory	1 Bungtown Road Cold Spring Harbor, NY 11724	PC	Genetic basis of autism	\$4,000,000
Cold Spring Harbor Laboratory	1 Bungtown Road Cold Spring Harbor, NY 11724	PC	16p11.2 Defining the gene(s) responsible (grant 1)	\$106,050
Cold Spring Harbor Laboratory	1 Bungtown Road Cold Spring Harbor, NY 11724	PC	Interaction of sensory signals and internal dynamics during decision-making	\$300,000
Cold Spring Harbor Laboratory	1 Bungtown Road Cold Spring Harbor, NY 11724	PC	The intersection between habit and anxiety in a genetic model of autism	\$125,000
Cold Spring Harbor Laboratory	1 Bungtown Road Cold Spring Harbor, NY 11724	PC	The Role of Corticostriatal Neurons in Visual Decisions	\$78,000
Cold Spring Harbor Laboratory	1 Bungtown Road Cold Spring Harbor, NY 11724	PC	Networks for decision making signal routing in and through parietal cortex	\$78,000
Cold Spring Harbor Laboratory	1 Bungtown Road Cold Spring Harbor, NY 11724	PC	Rosetta Brains Molecularly Annotated Connectomics	\$150,000

Cold Spring Harbor Laboratory	1 Bungtown Road Cold Spring Harbor, NY 11724	PC	CSHL Double Helix Medals Gala Gift	\$3,000,000
Cold Spring Harbor Laboratory	1 Bungtown Road Cold Spring Harbor, NY 11724	PC	A novel window into ASD through genetic targeting of striosomes - Project 1	\$72,271
Colgate University	13 Oak Dr Hamilton, NY 13346	PC	The Algebra and Combinatorics of Graph Embeddings	\$7,000
Colgate University	13 Oak Dr Hamilton, NY 13346	PC	Employee Matching	\$100
College of Charleston	66 George Street Charleston, SC 29424	PC	Collaborative work in conformal field theory	\$7,000
College of Charleston	66 George Street Charleston, SC 29424	PC	Analytical and numerical tools for stability analysis	\$7,000
College of Staten Island/CUNY jointly with Research Foundation/CUNY	College of Staten Island/CUNY Office of Sponsored Programs and Research 2800 Victory Blvd , Bldg 1A-211 Staten Island, NY 10314	PC	Generic properties of geometric groups	\$7,000
College of Staten Island/CUNY jointly with Research Foundation/CUNY	College of Staten Island/CUNY Office of Sponsored Programs and Research 2800 Victory Blvd , Bldg 1A-211 Staten Island, NY 10314	PC	Research in Moduli Spaces of Minimal Surfaces in Hyperbolic Manifolds	\$7,000
College of Staten Island/CUNY jointly with Research Foundation/CUNY	College of Staten Island/CUNY Office of Sponsored Programs and Research 2800 Victory Blvd , Bldg 1A-211 Staten Island, NY 10314	PC	Research on Stochastic Processes	\$7,000
College of Staten Island/CUNY jointly with Research Foundation/CUNY	College of Staten Island/CUNY Office of Sponsored Programs and Research 2800 Victory Blvd , Bldg 1A-211 Staten Island, NY 10314	PC	Asymptotic knot theory	\$7,000
College of Staten Island/CUNY jointly with Research Foundation/CUNY	College of Staten Island/CUNY Office of Sponsored Programs and Research 2800 Victory Blvd , Bldg 1A-211 Staten Island, NY 10314	PC	Geometric knot theory	\$7,000
College of the Holy Cross	Box GR 1 College Street Worcester, MA 01610-2395	PC	Kronecker product of Schur function/Zeta functions of graphs	\$7,000
College of William and Mary	Office of Sponsored Programs P O Box 8795 Williamsburg, VA 23187-8795	PC	Representation Theory and Combinatorics	\$7,000
College of William and Mary	Office of Sponsored Programs P O Box 8795 Williamsburg, VA 23187-8795	PC	Simons Collaboration on the Many Electron Problem - PI, Monte Carlo Group	\$167,000
College of William and Mary	Office of Sponsored Programs P O Box 8795 Williamsburg, VA 23187-8795	PC	Mathematical Research in Quantum Information Science	\$7,000
College of William and Mary	Office of Sponsored Programs P O Box 8795 Williamsburg, VA 23187-8795	PC	Closing the Gap Finding Better Bounds and Better Algorithms	\$7,000
Colorado Seminary, which owns the University of Denver	2199 S University Blvd MRB 222 Denver, CO 80208	PC	Algebraic Proof Theory	\$7,000
Colorado Seminary, which owns the University of Denver	2199 S University Blvd MRB 222 Denver, CO 80208	PC	Vertex Algebras, Invariant Theory, and Commutative Algebra	\$7,000
Colorado Seminary, which owns the University of Denver	2199 S University Blvd MRB 222 Denver, CO 80208	PC	Moufang Semiloops	\$7,000
Colorado State University	Sponsored Programs Campus Delivery Box 2002 Fort Collins, CO 80523-2002	PC	Collaboration Grant Algorithms for Groups	\$7,000
Colorado State University	Sponsored Programs Campus Delivery Box 2002 Fort Collins, CO 80523-2002	PC	Interactions between number theory and dynamics	\$7,000
Colorado State University	Sponsored Programs Campus Delivery Box 2002 Fort Collins, CO 80523-2002	PC	Geometric Approaches to Closed Random Walks	\$7,000
Colorado State University	Sponsored Programs Campus Delivery Box 2002 Fort Collins, CO 80523-2002	PC	Tautological intersection theory on moduli spaces	\$7,000
Columbia High School Fund	525 Academy Street, Maplewood, NJ 07040	PC	Employee Matching	\$100

Columbia University in the City of New York	630 West 168th Street P&S 10-508 New York, NY 10032	PC	Homological Mirror Symmetry and Applications	\$280,504
Columbia University in the City of New York	630 West 168th Street P&S 10-508 New York, NY 10032	PC	Transforming a neural representation into a memory (Grant)	\$57,951
Columbia University Medical Center	Sponsored Projects Administration Columbia University 630 West 168th Street, Box 49 New York, NY 10032	PC	Simons Variation in Individuals Project (Simons VIP) Principal Investigator Gift	\$188,398
Columbia University Medical Center	Sponsored Projects Administration Columbia University 630 West 168th Street, Box 49 New York, NY 10032	PC	2013 Columbia Endowment	\$1,000,000
Columbia University Medical Center	Sponsored Projects Administration Columbia University 630 West 168th Street, Box 49 New York, NY 10032	PC	Higher-Level Olfactory Processing	\$250,000
Columbia University Medical Center	Sponsored Projects Administration Columbia University 630 West 168th Street, Box 49 New York, NY 10032	PC	Annual Gift to Columbia University for Wendy Chung	\$1,500,000
Columbia University Medical Center	Sponsored Projects Administration Columbia University 630 West 168th Street, Box 49 New York, NY 10032	PC	Role of the hippocampal CA2 region in autism	\$125,000
Columbia University Medical Center	Sponsored Projects Administration Columbia University 630 West 168th Street, Box 49 New York, NY 10032	PC	Transforming a neural representation into a memory (Fellowship)	\$78,000
Columbia University Medical Center	Sponsored Projects Administration Columbia University 630 West 168th Street, Box 49 New York, NY 10032	PC	Autophagy pathway alterations in lymphocytes Potential biomarkers for autism?	\$79,551
Columbia University Medical Center	Sponsored Projects Administration Columbia University 630 West 168th Street, Box 49 New York, NY 10032	PC	Delineating Cortico-Spinal Circuits for Skilled Motor Behavior	\$75,000
Commissariat a l'Energie Atomique et aux Energies alternatives	CEA Saclay /I2BM PC 141 Orsay Gif sur Yvette, 91191	NC	Simons Collaboration on the Many Electron Problem - PI, Cluster Embedding Group	\$25,000
Commissariat a l'Energie Atomique et aux Energies alternatives	CEA Saclay /I2BM PC 141 Orsay Gif sur Yvette, 91191	NC	Cracking the glass problem	\$24,000
Community College District 508, State of Illinois and County of Cook	226 West Jackson St Chicago, IL 60606	PC	Lusternik-Schnirelmann orbifold theory	\$7,000
Community Roots Charter School	510 Saint Edwards Street, Third Floor Brooklyn, NY 11205	PC	Employee Matching	\$1,000
Concordia University	1455 de Maisonneuve Blvd West Montreal, Quebec H3G 1M8	NC	Adic Modular Forms	\$78,925
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Enumerative Combinatorics of Polytopes, Posets and Coxeter Groups	\$7,000
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Simons Investigator in Computer Science	\$132,000
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	arXiv Operating Grant	\$400,000
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Collaboration in Ricci Flow	\$7,000
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Spectral Fingerprints of Habitable Planets	\$200,000
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	The Geometry of Infinite Discrete Groups	\$7,000
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Simons Collaboration on Algorithms and Geometry - PI	\$80,000
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Interactome perturbation by large-scale mutagenesis to find risk variants – Core	\$194,371
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	New strategies for materializing topological superconductors	\$118,374
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Dynamics and Formation of Extreme Exoplanetary Systems	\$141,788
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	2016-17 Simons Fellowship Application	\$115,213

Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	How is Performance Evaluation Encoded in the Brain?	\$75,000
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Geometric and Topological Invariants in Equivariant Symplectic Geometry	\$7,000
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Simons Society of Fellows - Junior Fellow	\$126,217
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Employee Matching	\$200
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Simons Collaboration on the Non-perturbative Bootstrap	\$120,000
Covenant House	5 Penn Plaza, 2nd Floor New York, NY 10001	PC	Employee Matching	\$3,400
Curators of the University of Missouri on Behalf of the University of Missouri - St Louis	One University Boulevard St Louis, MO 63121-4499	PC	Wavelet Frames, Nonlinear Diffusion and Image and Surface Restoration	\$7,000
Democracy Now	207 West 25th Street, 11th Floor New York, NY 10001	PC	Employee Matching	\$250
Democracy Prep Public Schools	1767 Park Avenue, 3rd Floor New York, NY 10035	PC	Employee Matching	\$500
DePaul University	1 East Jackson Boulevard Chicago, IL 60604-2287	PC	Simons Collaboration Grant for Bridget Tenner	\$7,000
DePaul University	1 East Jackson Boulevard Chicago, IL 60604-2287	PC	Dynamical Systems and the Geometry of Orbits	\$7,000
DePaul University	1 East Jackson Boulevard Chicago, IL 60604-2287	PC	Algebraic, geometric, and enumerative combinatorics	\$7,000
DePaul University	1 East Jackson Boulevard Chicago, IL 60604-2287	PC	Random matrix theory and applications	\$7,000
DePaul University	1 East Jackson Boulevard Chicago, IL 60604-2287	PC	Cohomology and Support Varieties	\$7,000
Doctors Without Borders USA	333 7th Avenue, 2nd Floor New York, NY 10001-5004	PC	Employee Matching	\$1,000
Doctors Without Borders USA	333 7th Avenue, 2nd Floor New York, NY 10001-5004	PC	Employee Matching	\$3,700
DonorsChoose.org	213 West 35th Street, 2nd Floor East New York, NY 10001	PC	Best School Day Initiative	\$200,000
DonorsChoose.org	213 West 35th Street, 2nd Floor East New York, NY 10001	PC	STEM Beyond School Walls	\$340,000
Drexel University	Office of Research Administration 1505 Race St, 8th Floor Philadelphia, PA 19102-1119	PC	The multivariable Schur class and determinantal representations	\$7,000
Duke University	2200 W Main Street, Suite 710 Durham, NC 27705	PC	Chow groups and geometry in dimensions three and four	\$7,000
Duke University	2200 W Main Street, Suite 710 Durham, NC 27705	PC	Stochastic dynamics stabilization, ergodicity, and algorithms	\$7,000
Duke University	2200 W Main Street, Suite 710 Durham, NC 27705	PC	Special Holonomy in Geometry, Analysis, and Physics	\$210,974
Duke University	2200 W Main Street, Suite 710 Durham, NC 27705	PC	Math+X Investigator	\$150,000
Duke University	2200 W Main Street, Suite 710 Durham, NC 27705	PC	Cracking the glass problem	\$62,673
Duke University Medical Center	Suite 820, Erwin Square 2200 West Main Street Durham, NC 27705	PC	Does Astrocyte Dysfunction Contribute to Synaptic Pathologies in Autism?	\$75,000
Dup15q Alliance	P O Box 674 Fayetteville, NY 13066	PC	2016 Dup15q Alliance and Angelman Syndrome Foundation Conference	\$5,000
Dysautonomia Foundation	315 W 39th St #701 New York, NY 10018	PC	Employee Matching	\$200
East Carolina University	Office of Sponsored Programs 2200 Charles Boulevard, Rm 2906 Greenville, NC 27858	PC	CMA Genetic Testing An Intervention for Parents of Children with Autism	\$60,000
Ecole Normale Supérieure Paris	45 rue d'Ulm Paris, 75230/05	NC	Simons Collaboration on the Non-perturbative Bootstrap	\$57,989
Ecole Polytechnique	route de saclay PALAISEAU, 91128	NC	Simons Collaboration on the Many Electron Problem - Director, Cluster Embedding Group	\$150,000
Ecole Polytechnique Fédérale de Lausanne (EPFL)	Building CE 3316, Station 1 Lausanne, 1015	NC	Cracking the glass problem	\$79,244
Ecole Polytechnique Fédérale de Lausanne (EPFL)	Building CE 3316, Station 1 Lausanne, 1015	NC	Simons Collaboration on the Non-perturbative Bootstrap	\$30,000
Emory University	1599 Clifton Road NE, 4th Floor Mailstop 1599-001-1BA Atlanta, GA 30322	PC	SFARI National Autism Cohort - Emory Autism Center	\$149,831
Emory University	1599 Clifton Road NE, 4th Floor Mailstop 1599-001-1BA Atlanta, GA 30322	PC	Extremal and Probabilistic Combinatorics	\$7,000

Emory University	1599 Clifton Road NE, 4th Floor Mailstop 1599-001-1BA Atlanta, GA 30322	PC	Simons Simplex Collection Support Grant	\$5,787
Equal Justice Initiative	122 Commerce Street Montgomery, AL 36104	PC	Employee Matching	\$2,000
Erasmus Universitair Medisch Centrum Rotterdam	s Gravendijkwal 230 Rotterdam, 3015CE	NC	Environment-wide association study of autism	\$125,000
Erwin Schrodinger International Institute for Mathematical Physics	Boltzmanngasse 9 Vienna, A-1090	NC	Simons Junior Professor in Mathematics or Mathematical Physics	\$110,000
FINCA International	1201 15th Street NW, 8th Floor Washington, DC 20005	PC	Employee Matching	\$100
Florida Atlantic University	Division of Research, Florida Atlantic University 777 Glades Road Boca Raton, FL 33431-0991	PC	A degeneration problem for invariant subspaces	\$7,000
Florida Atlantic University	Division of Research, Florida Atlantic University 777 Glades Road Boca Raton, FL 33431-0991	PC	Immune p38-alpha MAPK activation Convergent mechanism linking autism models	\$214,613
Florida State University Research Foundation, Inc	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	The Birch and Swinnerton-Dyer conjecture and Stark- Heegner points	\$7,000
Florida State University Research Foundation, Inc	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Game-theoretic models of animal behavior	\$7,000
Florida State University Research Foundation, Inc	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Flows and foliations in three manifolds	\$7,000
Florida State University Research Foundation, Inc	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Mathematical Models of Cancer Growth and Treatment	\$7,000
Florida State University Research Foundation, Inc	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Topics in Financial Mathematics	\$7,000
Florida State University Research Foundation, Inc	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Shape Analysis of Curves and Surfaces	\$7,000
Florida State University Research Foundation, Inc	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Interdisciplinary Collaboration in Mathematics, Biology and Physics	\$7,000
Florida State University Research Foundation, Inc	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Provably Stable Spectral Element Methods for Advection Dominated Problems	\$7,000
Florida State University Research Foundation, Inc	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Topology and dynamics in low dimensions	\$7,000
Florida State University Research Foundation, Inc	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Mathematical Models of Cortical Folding in Development, Aging, and Disease	\$7,000
Florida State University Research Foundation, Inc	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Geometric Aspects of Number Theory and Representations of 3-manifold Groups	\$7,000
Fondazione Istituto Italiano di Tecnologia	Via Morego 30 Genova, 16163	NC	Neurobiological basis of connectivity deficits in autism	\$67,436
Fordham University	Fordham University 441 East Fordham Road Bronx, NY 10458	PC	Toric geometry origami and b-symplectic manifolds, symplectic embeddings	\$7,000
Foundation Fighting Blindness	7168 Columbia Gateway Drive, Suite 100 Columbia, MD 21046	PC	Employee Matching	\$110
Foundation for the National Institutes of Health	9650 Rockville Pike Bethesda, MD 20814	PC	Autism Biomarkers Consortium for Clinical Trials Project (ABC-CT)	\$500,000
Friends of IHES	501 Madison Avenue New York, NY 10022	PC	IHES General Operating Support (in Euro)	\$395,993
Friends of KEXP	113 Dexter Ave N Seattle, WA 98109	PC	Employee Matching	\$884
Fundação D'Anna de Sommer Champalimaud e Dr Carlos Montez Champalimaud	Av de Brasília Lisbon, 1400-038	NC	Neural encoding and decoding of policy uncertainty in the frontal cortex - Core	\$144,832
Fundação D'Anna de Sommer Champalimaud e Dr Carlos Montez Champalimaud	Av de Brasília Lisbon, 1400-038	NC	How the basal ganglia forces cortex to do what it wants - Core	\$143,537
Fundação D'Anna de Sommer Champalimaud e Dr Carlos Montez Champalimaud	Av de Brasília Lisbon, 1400-038	NC	The role of dopaminergic network dynamics in behavioral exploration	\$78,000
Gathering4Gardner, Inc	PO Box 725467 Atlanta, GA 31139	PC	Gathering 4 Gardner Conference	\$71,000

Geisinger Clinic, Weis Center for Research	100 North Academy Avenue Danville, PA 17822-2601	PC	Simons Variation in Individuals Project (VIP) Recruitment Core and Phase 2 Coordination Site	\$406,704
Genetics Society of America	9650 Rockville Pike Bethesda, MD 20814-3998	PC	The Allied Genetics Conference 2016	\$10,000
George Mason University	4400 University Drive, MSN 4C6 Fairfax, VA 22030	PC	Topology and Algebra of Character Varieties	\$7,000
Georgia Institute of Technology	Georgia Institute of Technology Atlanta, GA 30332	PC	Sampling Algorithms with Rigorous Guarantees	\$24,000
Georgia Institute of Technology	Georgia Institute of Technology Atlanta, GA 30332	PC	Rebooting the gut microbial ecosystem using bacterial dueling	\$56,426
Georgia Institute of Technology School of Biology	505 10th Street, Suite 100 Atlanta, GA 30332	PC	Reef fish microbiomes: models for bacteria-host interaction in the ocean	\$90,000
Georgia Southern University Rsch & Svc Fd Inc	PO Box 8005 Statesboro, GA 30460	PC	Combinatorics, Graph Theory and Applications	\$7,000
Georgia State University Research Foundation, Inc	PO Box 3999 Atlanta, GA 30302-3999	PC	Statistical inference based on empirical likelihood	\$7,000
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Time-Frequency and Applied Harmonic Analysis	\$7,000
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Asymptotics in Sequence Comparison	\$7,000
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Spectrality and duality in integrable systems and orthogonal polynomials	\$7,000
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Mathematical analysis and numerical application of imaging problems	\$7,000
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Optimal Alignments, First Passage Percolation and other growth models	\$7,000
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Geometry, Randomness and Free Probability	\$7,000
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Arithmetic of abelian varieties over function fields	\$7,000
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Mathematical methods for Statistical Mechanics in and out of equilibrium	\$7,000
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Objective measures of social interactions via wearable cameras	\$125,000
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Combinatorial Aspects of Mapping Class Groups	\$89,795
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Collective bacterial decision-making	\$99,963
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Geometry of sums of selfadjoint operators	\$7,000
Girls Write Now	247 West 37th Street, Suite 1800 New York, NY 10018	PC	Employee Matching	\$200
GiveDirectly	P O Box 3221 New York, NY 10008	PC	Employee Matching	\$840
Global and Regional Asperger Syndrome Partnership	666 Broadway, Suite 830 New York, NY 10012	PC	SPARK Community Partner Evaluation for Pilot	\$2,500
Gordon Research Conferences	512 Liberty Lane West Kingston, RI 02892	PC	2016 Neurobiology of Cognition: Neural Circuits for Perception, Memory, Thought and Consciousness Gordon Research Conference (GRC)	\$5,000
Gordon Research Conferences (GRC)	512 Liberty Lane West Kingston, RI 02892	PC	Gordon Research Conference on Microbial Stress Response	\$5,000
Gordon Research Conferences (GRC)	512 Liberty Lane West Kingston, RI 02892	PC	2016 Gordon Research Conference on Organic Geochemistry	\$5,000
Gordon Research Conferences (GRC)	512 Liberty Lane West Kingston, RI 02892	PC	2016 Marine Microbes Gordon Research Seminar: Microbe Coexistence and Coevolution in a Changing Ocean	\$3,000
Gordon Research Conferences (GRC)	512 Liberty Lane West Kingston, RI 02892	PC	Molecular Basis of Microbial One Carbon Metabolism Gordon Research Conference and Gordon Research Seminar	\$5,000
Governing Council of the University of Toronto	12 Queen's Park Crescent West McMurrich Building, 3rd Floor Toronto, Ontario M5S 1S8	NC	Optimal transport in geometry, physics and economics	\$132,000
Governing Council of the University of Toronto	12 Queen's Park Crescent West McMurrich Building, 3rd Floor Toronto, Ontario M5S 1S8	NC	New directions in communication complexity	\$24,000
Governing Council of the University of Toronto	12 Queen's Park Crescent West McMurrich Building, 3rd Floor Toronto, Ontario M5S 1S8	NC	Spaces with lower sectional and Ricci curvature bounds	\$96,851
Greenwich Village Orchestra	P O Box 573 New York, NY 10014	PC	Employee Matching	\$600

Habitat for Humanity International	322 West Lamar Street P O Box 7024 Americus, GA 31709	PC	Employee Matching	\$300
Harvard Medical School	25 Shattuck Street, Suite 509A Boston, MA 02115	PC	Decoding internal state to predict behavior	\$300,000
Harvard Medical School	25 Shattuck Street, Suite 509A Boston, MA 02115	PC	Microglia in models of normal brain development, prenatal immune stress and genetic risk for autism	\$200,000
Harvard Medical School	25 Shattuck Street, Suite 509A Boston, MA 02115	PC	Human Gene Editing and In Situ Sequencing of Neuronal Microcircuit Arrays	\$250,000
Harvard Medical School	25 Shattuck Street, Suite 509A Boston, MA 02115	PC	Enhancing Diversity in Autism Research Through Summer Research Programs	\$19,980
Harvey Mudd College	301 Platt Blvd Claremont, CA 91711	PC	Solvability of semilinear equations with discrete spectrum	\$7,000
Harvey Mudd College	301 Platt Blvd Claremont, CA 91711	PC	Discrete & Continuous Models of Non-local Chemical and Biological Systems	\$7,000
Haverford College	370 Lancaster Ave Haverford, PA 19041	PC	Employee Matching	\$1,000
Health Research Alliance	65 T W Alexander Drive #13605 Research Triangle Park, NC 27709-3901	PC	Health Research Alliance (HRA) Members' Meeting sponsorship	\$5,000
Heifer Project International	One World Ave Little Rock, AK 72201	PC	Employee Matching	\$600
Heifer Project International	One World Ave Little Rock, AK 72201	PC	Employee Matching	\$300
Helen Hay Whitney Foundation	20 Squadron Blvd Suite 630 New City, NY 10956	PC	2014 Simons-Whitney Fellows	\$170,250
Helen Hay Whitney Foundation	20 Squadron Blvd Suite 630 New York City, NY 10956	PC	2015 Simons-Whitney Fellows	\$56,750
Helen Hay Whitney Foundation	20 Squadron Blvd Suite 630 New York City, NY 10956	PC	2016 Simons-Whitney Fellows	\$162,750
Himalayan Cataract Project Inc	PO Box 55 Waterbury, VT 05676	PC	Employee Matching	\$2,000
Hofstra University	144 Hofstra University, 200 West Library Wing Hempstead, NY 11549	PC	Randomness, computable analysis, and effective structure theory	\$7,000
Housing Works	57 Willoughby Street, 2nd Floor Brooklyn, NY 11201	PC	Employee Matching	\$430
Howard Hughes Medical Institute	4000 Jones Bridge Rd Chevy Chase, MD 20815	PC	Faculty Scholars Program	\$3,940,000
Howard Hughes Medical Institute, Janelia Farm Research Campus	19700 Helix Drive Ashburn, VA 20147	PC	Understanding neural computations across the global brain	\$120,000
Howard Hughes Medical Institute, Janelia Farm Research Campus	19700 Helix Drive Ashburn, VA 20147	PC	Dynamics of neural circuits, representation of information, and behavior	\$120,000
HudsonAlpha Institute for Biotechnology	601 Genome Way Huntsville, AL 35806	PC	Discovery of regulatory variants underlying pediatric neurological disease	\$220,880
Hugo W Moser Research Institute at Kennedy Krieger, Inc	707 N Broadway Baltimore, MD 21205	PC	Clinical Site Network for the National Autism Cohort	\$149,999
Hunter College of CUNY jointly with Research Foundation of CUNY	695 Park Avenue New York, NY 10021	PC	Geometric Structures and moduli space invariants	\$7,000
Hunter College of CUNY jointly with Research Foundation of CUNY	695 Park Avenue New York, NY 10021	PC	Equations and Model Theory of Free Associative Algebras and Group Algebras	\$7,000
Hypothekids Inc	423 West 127th Street New York, NY 10027	PC	HYPOTHEkits Pilot Program	\$158,000
Icahn School of Medicine at Mount Sinai	One Gustave L Levy Place Box 1075 New York, NY 10029	PC	Integrating large scale whole exome data with whole genome data	\$250,000
Icahn School of Medicine at Mount Sinai	One Gustave L Levy Place Box 1075 New York, NY 10029	PC	Developing Scalable Measures of Behavior Change for ASD Treatments- Project 1	\$19,952
IMP Research Institute of Molecular Pathology GmbH	Campus-Vienna-Biocenter 1 Vienna, 1030	NC	Dense Mapping of Dynamics onto Structure in the C elegans Brain	\$166,287
Independent University of Moscow	11 Bolshoi Vlasievskii Moscow, 119002	NC	Independent University of Moscow (IUM)	\$200,000
Indiana University (Bloomington and Regional Campuses)	509 E 3rd Street Bloomington, IN 47401-3654	PC	Discrete structures in conformal dynamics and geometry	\$7,000
Indiana University (Bloomington and Regional Campuses)	509 E 3rd Street Bloomington, IN 47401-3654	PC	Coalgebra, Logic, and Recursion	\$7,000
Indiana University (Bloomington and Regional Campuses)	509 E 3rd Street Bloomington, IN 47401-3654	PC	Moduli of Minimal Surfaces in Euclidean Space	\$7,000
Indiana University (Bloomington and Regional Campuses)	509 E 3rd Street Bloomington, IN 47401-3654	PC	Collaboration grant for Analysis and Geometric Variations	\$7,000
Indiana University (Bloomington and Regional Campuses)	509 E 3rd Street Bloomington, IN 47401-3654	PC	Low dimensional topology and gauge theory	\$7,000
Indiana University (Bloomington and Regional Campuses)	509 E 3rd Street Bloomington, IN 47401-3654	PC	Pluripotential theory and applications	\$7,000

Indiana University (Bloomington and Regional Campuses)	509 E 3rd Street Bloomington, IN 47401-3654	PC	Algebraic K-Theory and Hochschild-type Approximations	\$7,000
Indiana University (Bloomington and Regional Campuses)	509 E 3rd Street Bloomington, IN 47401-3654	PC	Dynamics and geometry on moduli spaces	\$7,000
Indiana University (Bloomington and Regional Campuses)	509 E 3rd Street Bloomington, IN 47401-3654	PC	Representation homology	\$7,000
Indiana University (Bloomington and Regional Campuses)	509 E 3rd Street Bloomington, IN 47401-3654	PC	Geometric and Algebraic Topology	\$7,000
Indiana University (Bloomington and Regional Campuses)	509 E 3rd Street Bloomington, IN 47401-3654	PC	Analytic techniques in group theory	\$7,000
Indiana University (Bloomington and Regional Campuses)	509 E 3rd Street Bloomington, IN 47401-3654	PC	Homology cobordism of 3-manifolds and concordance of knots	\$7,000
Indiana University (Indianapolis)	Indiana University Office of Research Administration 980 Indiana Avenue, Room 2232 Indianapolis, IN 46202-2915	PC	Convergence and Optimization in Ergodic Theory and Harmonic Analysis	\$7,000
Indiana University (Indianapolis)	Indiana University Office of Research Administration 980 Indiana Avenue, Room 2232 Indianapolis, IN 46202-2915	PC	Collaborations in K-theory and Stable Representation Theory	\$7,000
Indiana University (Indianapolis)	Indiana University Office of Research Administration 980 Indiana Avenue, Room 2232 Indianapolis, IN 46202-2915	PC	Application for the Simons Foundation Grants	\$7,000
Indiana University (Indianapolis)	Indiana University Office of Research Administration 980 Indiana Avenue, Room 2232 Indianapolis, IN 46202-2915	PC	Asymptotics of Polynomials	\$7,000
Indiana University (Indianapolis)	Indiana University Office of Research Administration 980 Indiana Avenue, Room 2232 Indianapolis, IN 46202-2915	PC	Structure and Invariant Subspaces of Operators on Functional Hilbert Spaces	\$7,000
Indiana University (Indianapolis)	Indiana University Office of Research Administration 980 Indiana Avenue, Room 2232 Indianapolis, IN 46202-2915	PC	Low-Dimensional Dynamical Systems	\$7,000
Indiana University (Indianapolis)	Indiana University Office of Research Administration 980 Indiana Avenue, Room 2232 Indianapolis, IN 46202-2915	PC	Bethe Ansatz and Applications	\$7,000
Institut des Hautes Etudes Scientifiques	Le Bois-Marie 35, route de Chartres Bures-sur-Yvette, 91440	NC	Homological Mirror Symmetry and Applications	\$278,564
Institut des Hautes Etudes Scientifiques	Le Bois-Marie 35, route de Chartres Bures-sur-Yvette, 91440	NC	IHES General Operating Support	\$457,410
Institut National de la Sante et de la Recherche Medicale	101 rue de Tolbiac Paris, 75013	NC	How the basal ganglia forces cortex to do what it wants- Project 1	\$69,036
Institute for Advanced Study	Einstein Drive Princeton, NJ 08540-0631	PC	Simons Foundation Simonyi Endowment Fund	\$4,000,000
Institute for Advanced Study	Einstein Drive Princeton, NJ 08540-0631	PC	Simons Collaboration on Algorithms and Geometry - PI	\$213,819
Institute for Advanced Study	Einstein Drive Princeton, NJ 08540-0631	PC	Institute for Advanced Study (IAS)/Rockefeller University Joint Initiative in Qualitative Biology - Institutional Support Pt I	\$515,000
Institute for Advanced Study	Einstein Drive Princeton, NJ 08540-0631	PC	Acquisition, Storage and Inheritance of Information in Dynamical Living Matter	\$117,172
Institute for Advanced Study	Einstein Drive Princeton, NJ 08540-0631	PC	It from Qubit Quantum Fields, Gravity, and Information	\$126,300
Institute for Advanced Study	Einstein Drive Princeton, NJ 08540-0631	PC	Acquisition, Storage and Inheritance of Information in Dynamical Living Matter	\$118,616
Institute for Advanced Study	Einstein Drive Princeton, NJ 08540-0631	PC	Annual	\$100,000
Institute of Mathematics of the Polish Academy of Sciences	Sniadeckich 8 Warsaw, 00-656	NC	Simons Semesters in Banach Center	\$162,000
Institute of Molecular Biology, Academia Sinica	128, Sec 2, Academia Rd Taipei, 11529	NC	Do toll-like receptor innate immune responses act via autism risk genes to alter neuronal morphology and function?	\$70,000
Institute of Science and Technology Austria	Am Campus 1 Klosterneuburg, 3400	NC	Probing the development and reversibility of autism-related phenotypes in SETD5 conditional knockout mice	\$99,730
International Centre for Theoretical Sciences of Tata Institute of Fundamental Research	TIFR Centre Building, IISc Campus, 560012 Mallleshwaram, Bengaluru	NC	Science without boundaries A Simons Foundation Grant to ICTS-TIFR	\$200,000

International Congress of Infant Studies	350 Main Street Commerce Place Malden, MA 02418	PC	2016 Biennial International Conference on Infant Studies	\$5,000
International Mathematical Union	Markgrafenstr 32 Berlin, 10117	NC	IMU-Simons African Fellowship Program	\$55,000
International Society for Autism Research	342 North Main Street West Hartford, CT 06117-2570	PC	International Meeting for Autism Research (IMFAR) Support	\$50,000
International Society for Computational Biology	9650 Rockville Pike Bethesda, MD 20814	PC	2016 and 2017 ISCB Wikipedia competitions	\$3,100
Iowa State University College of Liberal Arts and Sciences	Iowa State University 1750 Beardshear Hall Ames, IA 50010	PC	Computability with Continuous Data	\$7,000
Iowa State University Foundation	2505 University Blvd Ames, IA 50010	PC	Extremal Tiling and Density Problems in Graphs and Hypergraphs	\$7,000
Iowa State University Foundation	2505 University Blvd Ames, IA 50010	PC	Using eigenvalues to understand graph structures	\$7,000
Iowa State University of Science and Technology	1138 Pearson Hall 505 Morrill Road Ames, IA 50011-2103	PC	Many Server Queueing Networks in Heavy Traffic	\$7,000
Iowa State University of Science and Technology	1138 Pearson Hall 505 Morrill Road Ames, IA 50011-2103	PC	Self-interacting random walks	\$7,000
Isaac Newton Institute for Mathematical Sciences	20 Clarkson Road Cambridge, CB3 0EH	NC	Simons Fellowship Program	\$150,000
Istituto Nazionale di Fisica Nucleare	Via Enrico Fermi Frascati (Rome), 40 - 00044	NC	Simons at the Galileo Galilei Institute (Simons@GGI)	\$135,740
JDRF	120 Wall St 19th Floor New York, NY 10005	PC	Employee Matching	\$200
Jewish Women's Archive	138 Harvard Street Brookline, MA 02446	PC	Employee matching	\$200
Joan & Sanford I. Weill Medical College of Cornell University	1300 York Avenue, Box 89 New York, NY 10065	PC	Developing Scalable Measures of Behavior Change for ASD Treatments - Core	\$209,466
Joan & Sanford I. Weill Medical College of Cornell University	1300 York Avenue, Box 89 New York, NY 10065	PC	CADB Clinical Site Network	\$149,816
Joan & Sanford I. Weill Medical College of Cornell University	1300 York Avenue, Box 89 New York, NY 10065	PC	Advancing a Standardized Research Protocol to Study Treatment Effects in Individuals with Autism Spectrum Disorder	\$39,591
Joan & Sanford I. Weill Medical College of Cornell University	1300 York Avenue, Box 89 New York, NY 10065	PC	Behavioral effects of fever and other illness on young children with autism –Core	\$78,882
Johns Hopkins University	Johns Hopkins University Central Lock Box Bank of America 100 West 33rd Street New York, NY 10001	PC	Simons Investigator in Physics	\$132,000
Johns Hopkins University	Johns Hopkins University Central Lock Box Bank of America 100 West 33rd Street New York, NY 10001	PC	Mapping 3D genomic architecture in human developing neurons to assess the contribution of noncoding risk variants for autism	\$75,000
Johns Hopkins University	Johns Hopkins University Central Lock Box Bank of America 100 West 33rd Street New York, NY 10001	PC	Simons Collaboration on the Non-perturbative Bootstrap	\$120,000
Johns Hopkins University (Homewood) School of Arts and Sciences	3400 N Charles Street Baltimore, MD 21218	PC	The Arithmetic Site	\$7,000
Johns Hopkins University (Homewood) School of Arts and Sciences	3400 N Charles Street Baltimore, MD 21218	PC	Geometric analysis in conformal geometry	\$7,000
Johns Hopkins University Center for Talented Youth (JHU-CTY)	Johns Hopkins University Center for Talented Youth McAuley Hall, Suite 400 5801 Smith Avenue Baltimore, MD 21209	PC	Employee Matching	\$100
Johns Hopkins University School of Medicine	Johns Hopkins University, SOM 733 North Broadway, Suite 117 Broadway Research Building Baltimore, MD 21205	PC	Understanding brain disorders related to the 15q11.2 chromosomal region	\$250,000

Johns Hopkins University School of Medicine	Johns Hopkins University, SOM 733 North Broadway, Suite 117 Broadway Research Building Baltimore, MD 21205	PC	Development of radiotracers for PET imaging of GABA-B receptors in non-human primates	\$74,155
Johns Hopkins University-School of Medicine	Johns Hopkins University, SOM 733 North Broadway, Suite 117 Broadway Research Building Baltimore, MD 21205	PC	A new non-human primate model for studying communicative behaviors	\$125,000
Kaiser Foundation Research Institute, a Division of Kaiser Foundation Hospitals	1800 Harrison Street, 16th Floor Oakland, CA 94612	PC	ASD Family Biobank Program	\$1,884,244
Kangu	75 West End Avenue, Ste R27D New York, NY 10023	PC	Employee Matching	\$100
Kansas State University	2 Fairchild Hall Manhattan, KS 66506-1103	PC	Collaboration Grant Proposal on Methods for High Dimensional Data	\$7,000
Kansas State University	2 Fairchild Hall Manhattan, KS 66506-1103	PC	Simons Collaboration Grant - Kerr 2014	\$7,000
Kansas State University	2 Fairchild Hall Manhattan, KS 66506-1103	PC	New models of fracture in solids with curvature-dependent surface tension	\$7,000
Kansas State University	2 Fairchild Hall Manhattan, KS 66506-1103	PC	Moonshine, Vertex Operator Algebras and Geometry	\$7,000
Kansas State University	2 Fairchild Hall Manhattan, KS 66506-1103	PC	Combinatorially defined C*-algebras and interactions with set theory	\$7,000
Kennedy Krieger Institute	707 N Broadway Baltimore, MD 21205	PC	Interactive Autism Network (IAN)	\$852,383
King's College London	The Strand London, WC2R 2LS	NC	Simons Collaboration on the Many Electron Problem - Director, Real Materials Group	\$300,000
King's College London	The Strand London, WC2R 2LS	NC	Simons Collaboration on the Many Electron Problem - PI, Real Materials Group	\$150,000
King's College London	The Strand London, WC2R 2LS	NC	Identifying autism-associated signaling pathways regulated by CHD8 in vivo	\$62,500
Kingsley House	1600 Constance St New Orleans, LA 70130	PC	Employee Matching	\$500
Københavns Universitet (University of Copenhagen)	Nørregade Copenhagen, DK1017	NC	Niels Bohr International Academy	\$75,000
Kyoto University	Yoshida-Honmachi Kyoto, 606-8501	NC	It from Qubit Quantum Fields, Gravity, and Information	\$110,000
Le Centre National de la Recherche Scientifique	CNRS 16 rue Pierre et Marie Curie Paris, 75005	NC	Cracking the glass problem	\$80,250
Le Centre National de la Recherche Scientifique	CNRS 16 rue Pierre et Marie Curie Paris, 75005	NC	Cracking the glass problem	\$75,574
Le Centre National de la Recherche Scientifique	CNRS 16 rue Pierre et Marie Curie Paris, 75005	NC	Cracking the glass problem	\$51,120
Le Centre National de la Recherche Scientifique	CNRS 16 rue Pierre et Marie Curie Paris, 75005	NC	Cracking the glass problem	\$71,910
Learning Spring School	247 East 20th Street New York, NY 10003	PC	Employee Matching	\$1,000
Learning Spring School	247 East 20th Street New York, NY 10003	PC	Employee Matching	\$1,000
Lehigh University	Office of Research and Sponsored Programs 526 Brodhead Avenue Bethlehem, PA 18015	PC	Degeneration of Kahler-Einstein Metrics	\$7,000
Lehigh University	Office of Research and Sponsored Programs 526 Brodhead Avenue Bethlehem, PA 18015	PC	A Multiphysics Mathematical Framework on Modeling Cerebral Aneurysms	\$7,000
Leland Stanford Junior University	326 Galvez Street Stanford, CA 94305-6105	PC	Stanford University Math+X Proposal	\$270,000
Life Sciences Research Foundation	3520 San Martin Drive, rm 333 Baltimore, MD 21218	PC	Life Sciences Research Foundation Fellowships	\$1,166,000
Louisiana State University A&M College (LSU)	202 Himes Hall Baton Rouge, LA 70803	PC	Phuc Nguyen's Application to Simons Foundation Collaboration Grants	\$7,000
Louisiana State University A&M College (LSU)	202 Himes Hall Baton Rouge, LA 70803	PC	The geometry of non-positively curved groups	\$7,000
Lowell Alumni Association	PO Box 320009 San Francisco, NY 94132	PC	Employee Matching	\$1,000
Loyola Marymount University	1 LMU Drive University Hall, Suite 3000 Los Angeles, CA 90045	PC	Crans Collaboration Grant Proposal	\$7,000
Loyola University Chicago	1032 W Sheridan Road Chicago, IL 60660-1537	PC	Generalized (q)-Schur algebras and Representation Theory	\$7,000
Loyola University Chicago	1032 W Sheridan Road Chicago, IL 60660-1537	PC	Set-Valued and Convex Analysis in Dynamics and Control	\$7,000

Ludwig Maximilians Universität München	Lehrstuhl für Stoffwechselbiochemie, Ludwig-Maximilians-Universität München & Deutsches Zentrum für Neurodegenerative Erkrankungen (DZNE) e.V. Feodor-Lynen-Strasse 17 München, 81377	NC	Laser for Chirality Microscope	\$23,700
Ludwig-Maximilians-Universität	Geschwister-Scholl-Platz 1 München, 80539	NC	Nonequilibrium Mechanisms for the Biogenesis of Life	\$376,600
Macalester College	1600 Grand Avenue St. Paul, MN 55105	PC	T. Halverson Combinatorial Representation Theory	\$7,000
Magic Incorporated	Po Box 15894 Stanford, CA 94309	PC	Employee Matching	\$200
Maine Medical Center	22 Bramhall Street Portland, ME 04102	PC	Characterizing the severely affected autism population	\$483,398
Manhattan New School (PS 290)	311 East 82nd Street New York, NY 10028	PC	Employee Matching	\$2,800
Marine Biological Laboratory (MBL)	7 MBL Street Woods Hole, MA 02543	PC	Microbial Diversity Course	\$150,000
Marine Biological Laboratory (MBL)	7 MBL Street Woods Hole, MA 02543	PC	Methods in Computational Neuroscience (MCN)	\$12,000
Marine Reconnaissance Foundation	P.O. Box 74 Murrieta, CA 92564	PC	Employee Matching	\$108
Marist College	3399 North Road Hancock Center Poughkeepsie, NY 12601	PC	Developing elastic parabolic equation solutions for marine mammal studies	\$7,000
Massachusetts General Hospital (The General Hospital Corp.)	55 Fruit Street Boston, MA 02114	PC	Translational dysregulation in autism pathogenesis and therapy	\$250,000
Massachusetts General Hospital (The General Hospital Corp.)	55 Fruit Street Boston, MA 02114	PC	The Origin of Cellular Life	\$400,000
Massachusetts General Hospital (The General Hospital Corp.)	55 Fruit Street Boston, MA 02114	PC	Molecular consequences of strong effect ASD mutations including 16p11.2	\$250,000
Massachusetts General Hospital (The General Hospital Corp.)	55 Fruit Street Boston, MA 02114	PC	Cryptic Genetic Causes of Autism	\$266,719
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Employee matching	\$4,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	MIT Unrestricted Gift	\$6,000,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Simons Investigator in Mathematics	\$132,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Simons Investigator in Computer Science	\$132,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Simons Investigator in Mathematics	\$66,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Seeking Evidence of Earth's Earliest Biogeochemical Cycles	\$396,886
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Simons Investigator in Physics	\$132,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Simons Investigator in Computer Science	\$132,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	A novel window into ASD through genetic targeting of striosomes - Core	\$175,141
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	The role of PTCHD1 in thalamic reticular nucleus function and ASD	\$250,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Characterizing sensory hypersensitivities in autism	\$230,098
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Modulating the dynamics of human-level neuronal object representations	\$233,717
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	The neural basis of Bayesian sensorimotor integration	\$325,780
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Signatures of biological and environmental co-evolution on the early Earth	\$202,392
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Simons Investigator in Mathematics	\$132,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Simons Investigator in Physics	\$132,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	The global genomic diversity of Prochlorococcus	\$302,528
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Physics of strongly correlated systems spin liquid and superconductivity	\$150,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Clouds in Exoplanet Atmospheres - Are They Blocking our View of Life Below?	\$85,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Genome Stratigraphy Physiological and Temporal Reconstruction of Early Life	\$119,891

Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Record of microbial and geochemical co-evolution in cyanobacterial genomes	\$180,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Neural Circuit Dynamics for Sequence and Variability	\$137,500
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Integrable Probability	\$132,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Simons Investigator in Mathematics	\$66,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Equvariant spectral theory	\$7,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Advanced EDB for the Study of Exoplanet Clouds	\$60,500
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Compute infrastructure for enhanced numerical modeling and analysis of marine microbial dynamics	\$1,381,371
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Evolutionary Metabolomics of Prochlorococcus and Impact on the Dissolved Organic Carbon Cycle	\$51,641
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	The new Simons Center for the Social Brain	\$4,693,153
Massachusetts Institute of Technology (MIT)	600 Memorial Drive, W98, 2nd Floor Cambridge, MA 02139-4822	PC	Systems Ecology of Particle-Attached Microbial Communities in the Ocean	\$179,359
Math for America	50 Broadway New York, NY 10004	PC	MFA Operating Expenses	\$15,625,000
Mathematical Sciences Research Institute (MSRI)	17 Gauss Way Berkeley, CA 94720-5070	PC	Visiting Professorships, Postdoc and Senior Participants Support	\$500,000
Mathematical Sciences Research Institute (MSRI)	17 Gauss Way Berkeley, CA 94720-5070	PC	Mathematical Sciences Research Institute National Math Festival	\$165,000
Mathematical Sciences Research Institute (MSRI)	17 Gauss Way Berkeley, CA 94720-5070	PC	MSRI Shiing-Shen Chern Endowment	\$2,000,000
Mathematical Sciences Research Institute (MSRI)	17 Gauss Way Berkeley, CA 94720-5070	PC	MSRI Unrestricted Support	\$1,000,000
Mathematical Sciences Research Institute (MSRI)	17 Gauss Way Berkeley, CA 94720-5070	PC	Numberphile	\$150,000
McGill University	845 Sherbrooke St West James Admin Bldg ,2nd Floor Montreal, Quebec H3A 0G4	NC	Simons Investigator in the Mathematical Modeling of Living Systems	\$66,000
McGill University	845 Sherbrooke St West James Admin Bldg ,2nd Floor Montreal, Quebec H3A 0G4	NC	Oberman Simons Fellow Application 2015	\$95,520
McGill University	845 Sherbrooke St West James Admin Bldg ,2nd Floor Montreal, Quebec H3A 0G4	NC	Simons Investigator in the Mathematical Modeling of Living Systems	\$66,000
McGill University Health Centre- Montreal Children's Hospital	2300 Tupper Street, Suite C-244 Montreal, Quebec H3H 1P3	NC	Simons Simplex Collection Support Grant	\$10,000
McMaster University	1280 Main Street West Hamilton, Ontario L8S 4L8	NC	Novel Superconductors	\$93,720
Medical Research Council Laboratory of Molecular Biology	Francis Crick Avenue Cambridge Biomedical Campus Cambridge, CB2 0QH	NC	Prebiotic Systems Chemistry	\$500,000
Medical Research Council Laboratory of Molecular Biology	Francis Crick Avenue Cambridge Biomedical Campus Cambridge, CB2 0QH	NC	A RNA polymerase ribozyme with general replication capacity	\$85,000
Medical University of South Carolina	19 Hagood Ave , Suite 606 MSC 808 Charleston, SC 29425-8080	PC	Analysis of Shank3 ubiquitination regulation by RNF31 phosphorylation	\$70,000
Memorial Sloan-Kettering Cancer Center	1275 York Avenue New York, NY 10065	PC	Employee Matching	\$200
Memorial Sloan-Kettering Cancer Center	1275 York Avenue New York, NY 10065	PC	Employee Matching	\$200
Mercy Corps	45 SW Ankeny St Portland, OR 97204	PC	Employee Matching	\$150
Metropolitan Museum of Art	1000 5th Ave New York, NY 10028	PC	Employee Matching	\$160
MI - 10/70 - Wayne State University	Sponsored Program Administration 5057 Woodward Avenue, Suite 13202 Detroit, MI 48202	PC	Some Free Boundary Problems For Elliptic Equations	\$7,000
Miami University	501 E High Street 102 Roubush Hall Oxford, OH 45056	PC	Existence and stability of traveling waves	\$7,000

Miami University	501 E High Street 102 Roubesh Hall Oxford, OH 45056	PC	SimonsCollab2013	\$7,000
Miami University	501 E High Street 102 Roubesh Hall Oxford, OH 45056	PC	Classification, rigidity and representations of C^* -algebras	\$7,000
Michigan State University	Hannah Administration 426 Auditorium Road, Room 2 East Lansing, MI 48824	PC	Complex Hyperbolic Lattices Geometry and Analysis	\$7,000
Michigan State University	Hannah Administration 426 Auditorium Road, Room 2 East Lansing, MI 48824	PC	Some problems in Riemannian and CR geometry	\$7,000
Michigan State University	Hannah Administration 426 Auditorium Road, Room 2 East Lansing, MI 48824	PC	Microscopic Foundations For Macroecological Patterns	\$99,930
Michigan State University	Hannah Administration 426 Auditorium Road, Room 2 East Lansing, MI 48824	PC	Estimate on the multi-point Green function for Schramm-Loewner evolution	\$94,990
Michigan State University	Hannah Administration 426 Auditorium Road, Room 2 East Lansing, MI 48824	PC	Microscopic Foundations For Macroecological Patterns	\$99,930
Michigan Technological University	1400 Townsend Dr Houghton, MI 49931	PC	Research in algebra and combinatorics	\$7,000
Middle Tennessee State University	1301 E Main Street Box 124 Murfreesboro, TN 37132	PC	Flows, Coloring and Cycle Covering of Signed Graphs	\$7,000
Mid-Michigan Autism Association	Mid-Michigan Autism Association P O Box 27462 Lansing, MI 48909	PC	SPARK Community Partner Evaluation for Pilot	\$2,500
Minnesota State University Moorhead	1104 7th Ave South Moorhead, MN 56563	PC	Collaboration Grants for Mathematicians Simons Foundation 2015	\$7,000
Miriam's Kitchen	2401 Virginia Ave NW Washington, DC 20037	PC	Employee matching	\$200
Mississippi State University	P O Box 6156 133 Etheredge Hall 449 Hardy Road Mississippi State, MS 39762	PC	High order numerical methods on complex geometries	\$7,000
Montefiore Medical Center	111 East 210th St Bronx, NY 10467	PC	Developing Scalable Measures of Behavior Change for ASD Treatments- Project 4	\$19,515
Mothers Against Drunk Driving	511 E John Carpenter Frwy #700 Irving, TX 75062	PC	Employee Matching	\$150
Mothers Against Drunk Driving	511 E John Carpenter Frwy #700 Irving, TX 75062	PC	Employee Matching	\$110
Muscular Dystrophy Association	6400 E Grant Road, Ste 170 Tucson, AZ 85715	PC	Employee Matching	\$800
Museum of Arts and Design	2 Columbus Circle New York, NY 10019	PC	Employee matching	\$150
NAACP Legal Defense and Educational Fund Inc	40 Rector Street, 5th Floor New York, NY 10006	PC	Employee Matching	\$200
NASA Goddard Space Flight Center	Code 140 NASA Goddard Space Flight Center Greenbelt, MD 20770	PC	Planetary Context for Origin of Life Experiments	\$400,000
National Academy of Sciences	500 Fifth Street, NW Washington, DC 20001	PC	National Academy of Sciences (NAS) Annual Fund	\$50,000
National Academy of Sciences	500 Fifth Street, NW Washington, DC 20001	PC	Ralph J and Carol M Cicerone Endowment for NAS Missions	\$3,333,333
National Academy of Sciences	500 Fifth Street, NW Washington, DC 20001	PC	Science Literacy and Public Understanding of Science Report	\$35,000
National Academy of Sciences	500 Fifth Street, NW Washington, DC 20001	PC	Designing Citizen Science to Support Science Learning	\$241,103
National Centre for Biological Sciences	NCBS - TIFR UAS-GKVK Campus Bellary Road Bangalore, 560065	NC	Simons Center for the Study of Living Machines	\$100,000
National Centre for Biological Sciences	NCBS - TIFR UAS-GKVK Campus Bellary Road Bangalore, 560065	NC	Simons Center for the Study of Living Machines	\$200,000
National Museum of African American History and Culture	1400 Constitution Ave , NW Washington, DC 20004	PC	Employee Matching	\$500
National Museum of Mathematics	134 West 26th Street, Suite 4S New York, NY 10001	PC	MoMath Amateur Math Lecture Series (Math Encounters)	\$117,202
National Museum of Mathematics	134 West 26th Street, Suite 4S New York, NY 10001	PC	MoMath Masters Tournament Gala	\$300,000
National Park Foundation	1110 Vermont Avenue, NW, Suite 200 Washington, DC 20005	PC	South by South Lawn Event	\$100,000

NEST+m	1110 Vermont Avenue, NW, Suite 200 Washington, DC 20005	PC	Employee Matching	\$2,000
New Jersey Institute of Technology	University Heights Newark, NJ 07102-1982	PC	Penalty methods and computational material science	\$7,000
New Jersey Institute of Technology	University Heights Newark, NJ 07102-1982	PC	Numerical Methods for Optimal Transportation	\$7,000
New Orleans Jazz & Heritage Foundation, Inc	1205 N Rampart St New Orleans, LA 70116	PC	Employee Matching	\$1,000
New Venture Fund	1201 Connecticut Ave, NW, Suite 301 Washington, DC 20005	PC	Science Philanthropy Alliance	\$500,000
New York Genome Center, Inc	590 Madison Ave, 21st Fl New York, NY 10022	PC	New York Genome Center Unrestricted Challenge Gift	\$16,000,000
New York Hall of Science	47-01 111th Street Queens, NY 11368	PC	NYSCI Design Make Playground for the Community	\$1,000,000
New York Harbor Foundation	New York Harbor Foundation 10 South Street, Slip 7 New York, NY 10004	PC	The Billion Oyster Project (BOP) Public Engagement Program - Community Reefs	\$274,308
New York Road Runners	156 West 56th Street, 3rd fl New York, NY 10019	PC	Employee Matching	\$880
New York Structural Biology Center	New York Structural Biology Center 89 Convent Avenue New York, NY 10027	PC	New York Structural Biology Center Support Grant	\$12,199,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Society of Fellows - Senior Fellow	\$30,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Algebraic and Arithmetic Geometry, Galois Theory	\$7,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Collaboration on Algorithms and Geometry - PI	\$80,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Collaboration on Algorithms and Geometry - PI	\$80,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Collaboration on Algorithms and Geometry - PI	\$80,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Collaboration on Algorithms and Geometry - PI	\$142,160
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Hidden states and functional subdivisions of fronto-parietal network	\$299,813
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Large-scale cortical and thalamic networks that guide oculomotor decisions	\$299,997
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Collaboration on Algorithms and Geometry - PI	\$188,010
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Society of Fellows - Senior Fellow	\$30,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	The Role of Perceptual Certainty in Adaptive Decision Making	\$78,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Society of Fellows - Junior Fellow	\$121,405
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Society of Fellows - Junior Fellow	\$121,405
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Society of Fellows - Junior Fellow	\$60,702
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Protein function and variant annotation by integrations of Rosetta and biological networks	\$134,848
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Investigator in Computer Science	\$132,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Foundation Fellowship	\$131,894
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Science, Health and Environmental Reporting program's lecture series and writing workshops	\$85,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Society of Fellows - Senior Fellow	\$45,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Center for Data Analysis (SCDA) Gift - Applied Mathematics Laboratory at the Courant Institute of New York University	\$30,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Society of Fellows - Senior Fellow	\$30,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	The Rosetta Developers Meeting Macromolecular Modeling and Design	\$200,000
New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Roles of pro-inflammatory Th17 cells in autism	\$124,846

New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Interneuron subtype-specific malfunction in autism spectrum disorders	\$120,000
New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Simons Society of Fellows - Junior Fellow	\$128,267
New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Simons Society of Fellows - Junior Fellow	\$128,267
New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Analyzing a complex motor act at the mesoscopic scale - Core	\$150,000
New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Role of a novel PRC1 complex in neurodevelopment and ASD neurobiology	\$225,000
New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	The behavioral correlates of spatial memory formation in hippocampal dCA1	\$78,000
New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Skewed dynamics of neuronal patterns in plastic yet stable cortical networks	\$472,606
New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Simons Society of Fellows - Junior Fellow	\$127,643
New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Simons Society of Fellows - Senior Fellow	\$30,000
New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Developing Scalable Measures of Behavior Change for ASD Treatments- Project 2	\$21,228
New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Exploring role of Th17-inducing maternal intestinal bacteria in ASD - Project 1	\$46,575
Newark Academy	91 South Orange Avenue Livingston, NJ 07039	PC	Employee matching	\$200
Norte Maar	83 Wyckoff Avenue #1B Brooklyn, NY 11237	PC	Employee Matching	\$200
North Carolina Agricultural & Technical State University	1601 East Market Street Division of Research Greensboro, NC 27411	PC	Collaboration Grants for Mathematicians - C Park	\$7,000
North Carolina State University	2701 Sullivan Drive, Suite 240 Campus Box 7514 Raleigh, NC 27695-7514	PC	Lecture Hall Polytopes, Inversion Sequences, and Eulerian Polynomials	\$7,000
North Carolina State University	2701 Sullivan Drive, Suite 240 Campus Box 7514 Raleigh, NC 27695-7514	PC	Frobenius manifolds and W-algebras	\$7,000
North Carolina State University	2701 Sullivan Drive, Suite 240 Campus Box 7514 Raleigh, NC 27695-7514	PC	Representations of affine and quantum affine algebras	\$7,000
North Carolina State University	2701 Sullivan Drive, Suite 240 Campus Box 7514 Raleigh, NC 27695-7514	PC	Link and Graph Homology and Categorifications	\$7,000
North Carolina State University	2701 Sullivan Drive, Suite 240 Campus Box 7514 Raleigh, NC 27695-7514	PC	Algebraic Structure Of Differential And Difference Equations	\$7,000
North Carolina State University	2701 Sullivan Drive, Suite 240 Campus Box 7514 Raleigh, NC 27695-7514	PC	Multi-scale modeling of viral infection, evolution and treatment	\$7,000
North Dakota State University	Office of Sponsored Programs 1735 NDSU Research Park Drive Fargo, ND 58105-5756	PC	Invariants in Relative Symplectic Topology	\$7,000
Northeastern University	360 Huntington Avenue 490 Renaissance Park Boston, MA 02115	PC	Groups, algorithms and geometries	\$7,000

Northeastern University	360 Huntington Avenue 490 Renaissance Park Boston, MA 02115	PC	Examining interpersonal biobehavioral synchrony as a measure of social reciprocity and emotion regulation in parent-child dyads with and without autism using an interactive smart toy platform	\$141,056
Northwestern University - Evanston Campus	1801 Maple Ave 2nd Floor, Suite 2410 Evanston, IL 60201	PC	Higher analytic stacks and topological field theory	\$7,000
Northwestern University - Evanston Campus	1801 Maple Ave 2nd Floor, Suite 2410 Evanston, IL 60201	PC	Optical Imaging and Manipulation of Medial Entorhinal Cortex Grid Cells	\$78,000
Northwestern University - Evanston Campus	1801 Maple Ave 2nd Floor, Suite 2410 Evanston, IL 60201	PC	Dynamics with a combinatorial bent	\$122,455
Northwestern University - Evanston Campus	1801 Maple Ave 2nd Floor, Suite 2410 Evanston, IL 60201	PC	Simons Investigator in MMLS	\$66,000
Oberlin College	173 West Lorain Street Oberlin, OH 44074	PC	Employee Matching	\$5,000
Ocean Conservancy	1300 19th Street, NW 8th Floor Washington, DC 20036	PC	Employee Matching	\$150
Oklahoma State University	203 Whitehurst Stillwater, OK 74078	PC	Automorphic Forms and Representations	\$7,000
Oklahoma State University	203 Whitehurst Stillwater, OK 74078	PC	Nodal sets on arithmetic surfaces, Integrality and hypergeometrics	\$7,000
Oklahoma State University	203 Whitehurst Stillwater, OK 74078	PC	Collaborations in Combinatorial Commutative Algebra	\$7,000
Old Dominion University Research Foundation	4111 Monarch Way Suite 204 Norfolk, VA 23508-2561	PC	mathematical studies of smectic A and bent-core liquid crystals	\$7,000
Oregon Health & Science University	3181 SW Sam Jackson Park Rd Mail Code L106OPAM Portland, OR 97239	PC	Investigating the role of somatic mutations in autism spectrum disorders	\$249,216
Oregon Health & Science University	3181 SW Sam Jackson Park Rd Mail Code L106OPAM Portland, OR 97239	PC	Oregon SPARK National Autism Cohort 50K	\$149,996
Oregon Health & Science University	3181 SW Sam Jackson Park Rd Mail Code L106OPAM Portland, OR 97239	PC	SFARI Undergraduate Summer Research Program	\$9,360
Oregon State University	B308 Kerr Administration Bldg Corvallis, OR 97331-2140	PC	Model selection in high dimensional semiparametric models	\$7,000
Oregon State University	B308 Kerr Administration Bldg Corvallis, OR 97331-2140	PC	New Developments in Statistical Regularization	\$7,000
Oregon State University	B308 Kerr Administration Bldg Corvallis, OR 97331-2140	PC	Behavior of Solutions to Equations of Fluid Motion	\$7,000
Oregon State University	B308 Kerr Administration Bldg Corvallis, OR 97331-2140	PC	Oceanographic Research Instrumentation	\$101,410
Oregon State University	B308 Kerr Administration Bldg Corvallis, OR 97331-2140	PC	Research Instrumentation Submersible Imaging Flow Cytometry at Station ALOHA	\$152,160
Orient Association	PO Box 282 Orient, NY 11957	PC	In Memory Donation	\$500
Orient Fire Department, Inc	Orient Fire Department, Inc 23300 Main Rd Orient, NY 11957	PC	In Memory Donation	\$1,000
Orlando Outreachers	640 Laurel Oake Lane, Unit 204 Altamonte Springs, FL 32701-0000	PC	Employee Matching	\$100
Oysterponds Historical Society	1555 Village Lane PO Box 70 Orient, NY 11957	PC	In Memory Donation	\$1,000
Pacific Science Center Foundation	200 Second Avenue North Seattle, WA 98109	PC	Amazon Adventure Film	\$500,000
Pacific University	2043 College Way Forest Grove, OR 97116	PC	Second-Order Renormalization Group Flow and Monotonicity Formulae	\$7,000
Pacific University	2043 College Way Forest Grove, OR 97116	PC	Matroids in an International Research Community generating new researchers	\$7,000
Panthera	8 West 40 St, Fl 18 New York, NY 10018	PC	Employee Matching	\$300
Parent Teacher Association of the High School of Math Science and Engineering	240 Convent Avenue New York, NY 10031	PC	Employee Matching	\$1,030
Partners Asia (formerly) Community Partners International	225 Bush Street Suite 590 San Francisco, CA 94104	PC	Employee Matching	\$800
Perimeter Institute	31 Caroline St N Waterloo, Ontario N2L 2Y5	NC	Simons Collaboration on the Many Electron Problem - PI, Tensor Networks Group	\$167,000
Perimeter Institute	31 Caroline St N Waterloo, Ontario N2L 2Y5	NC	It from Qubit Quantum Fields, Gravity, and Information	\$110,000

Perimeter Institute	31 Caroline St N Waterloo, Ontario N2L 2Y5	NC	Simons Collaboration on the Non-perturbative Bootstrap	\$120,000
Physical Science Innovations	C/O CalCEF 5 Third Street, Suite 900 San Francisco, CA 94103	PC	Cyclotron Road	\$250,000
Pioneer Works Art Foundation	159 Pioneer Street Brooklyn, NY 11231	PC	Pioneer Works Gift	\$100,000
Pioneer Works Art Foundation	159 Pioneer Street Brooklyn, NY 11231	PC	Sciences at Pioneer Works	\$300,000
Planned Parenthood Federation of America	434 W 33rd St New York, NY 10001-2601	PC	Employee Matching	\$1,500
Planned Parenthood Federation of America	434 W 33rd St New York, NY 10001-2601	PC	Employee Matching	\$600
Planned Parenthood Federation of America	434 W 33rd St New York, NY 10001-2601	PC	Employee Matching	\$400
Planned Parenthood Federation of America	434 W 33rd St New York, NY 10001-2601	PC	Employee Matching	\$1,000
Planned Parenthood Federation of America	434 W 33rd St New York, NY 10001-2601	PC	Employee Matching	\$150
Planned Parenthood Federation of America	434 W 33rd St New York, NY 10001-2601	PC	Employee Matching	\$400
Poly Prep Country Day School	9216 Seventh Avenue Brooklyn, NY 11228	PC	Employee Matching	\$3,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Simons Investigator in Mathematics	\$132,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Simons Investigator in Physics	\$132,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Exoplanets and the Planetary Origins of Life	\$425,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	STUDIES IN THE CHEMISTRY OF ELEMENTARY PROCESSES IN PERIBIOTIC EARTH	\$400,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Simons Investigator in Physics	\$132,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Simons Investigator in Computer Science	\$90,725
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Analysis of oxytocin function in brain circuits processing social cues	\$62,500
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Organic abundance distributions and chemistry during planet formation	\$249,991
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Toward Computational Neuroscience of Global Brains	\$273,026
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Uncovering the Chemistry of Earth-like Planets	\$170,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	The emergence and evolution of molecular order in the cell membrane	\$85,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Simons Investigator in MMLS	\$66,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Homological Mirror Symmetry and Applications	\$146,013
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Dynamics of growth and division in prebiotic vesicles	\$75,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Simons Investigator in Physics	\$66,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Simons Investigator in Computer Science	\$66,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Molecular characterization of temperature sensitive circuits in the mouse	\$180,000

President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Employee Matching	\$6,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Simons Investigator in MMLS	\$66,000
President and Fellows of Harvard College	1350 Massachusetts Avenue Cambridge, MA 02138	PC	Understanding somatosensory deficits in Autism Spectrum Disorder	\$125,000
President and Fellows of Harvard College	1350 Massachusetts Avenue Cambridge, MA 02138	PC	Simons Investigator in Physics	\$132,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Investigator in Computer Science	\$132,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Investigator in Mathematics	\$132,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Investigator in Physics	\$132,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Investigator in Mathematics	\$132,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Investigator in Physics	\$132,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Collaboration on the Many Electron Problem - PI, Tensor Networks Group	\$83,500
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Collaboration on Algorithms and Geometry - Director	\$421,764
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Collaboration on Algorithms and Geometry - PI	\$187,173
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Collaboration on Algorithms and Geometry - PI	\$140,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Collaboration on Algorithms and Geometry - PI	\$200,226
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Whole brain calcium imaging in freely behaving nematodes	\$160,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Relating dynamic cognitive variables to neural population activity	\$320,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Population dynamics across pairs of cortical areas in learning and behavior - Core	\$125,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Searching for universality in the state space of neural networks	\$140,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Neural Circuit Dynamics During Cognition	\$250,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Ca and Mg isotopic indicators in ancient carbonates	\$85,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Investigator in Mathematics	\$132,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	PTOLEMY	\$200,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Studies in Arithmetic Algebraic Geometry	\$7,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Topics in arithmetic geometry	\$132,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Methodologies for tissue- and cell-lineage specific analysis of complex functional genomic data	\$130,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	A New Framework for Ecological Kinetics in Natural Environments	\$86,411
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Investigator in Physics	\$66,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Neural mechanisms underlying flexible decision-making	\$75,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Dissecting neural circuits that support social behavior	\$75,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Center for Data Analysis (SCDA) Gift - Troyanskaya laboratory at Princeton University	\$75,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Gender and temporoparietal network interactions in autism	\$70,000
Princeton University	P O Box 36 Princeton, NJ 08544-0036	PC	Simons Collaboration on the Non-perturbative Bootstrap	\$120,000
Provide	PO Box 410164 Cambridge, MA 02141	PC	Employee Matching	\$1,500
Purdue University	Sponsored Program Services Young Hall, 155 S Grant Street West Lafayette, IN 47907-2114	PC	Degenerate Parabolic and Hyperbolic Partial Differential Equations	\$7,000

Purdue University	Sponsored Program Services Young Hall, 155 S Grant Street West Lafayette, IN 47907-2114	PC	R-groups and L-functions for quasi-split groups, and related problems	\$7,000
Purdue University	Sponsored Program Services Young Hall, 155 S Grant Street West Lafayette, IN 47907-2114	PC	Optimal configurations and equilibrium measures	\$7,000
Purdue University	Sponsored Program Services Young Hall, 155 S Grant Street West Lafayette, IN 47907-2114	PC	Geometry, topology and physics	\$7,000
Purdue University	Sponsored Program Services Young Hall, 155 S Grant Street West Lafayette, IN 47907-2114	PC	Wave propagation, scattering and inverse problems	\$7,000
Purdue University	Sponsored Program Services Young Hall, 155 S Grant Street West Lafayette, IN 47907-2114	PC	Geometric scattering theory, and propagation and decay of waves	\$7,000
Purdue University	Sponsored Program Services Young Hall, 155 S Grant Street West Lafayette, IN 47907-2114	PC	Simons Investigator in MMLS	\$66,000
Purdue University	Sponsored Program Services Young Hall, 155 S Grant Street West Lafayette, IN 47907-2114	PC	Simons Investigator in MMLS	\$66,000
Queens College/CUNY jointly with Research Fdn/CUNY	65-30 Kissena Blvd Flushing, NY 11367	PC	Infinite Teichmuller spaces	\$7,000
Queens College/CUNY jointly with Research Fdn/CUNY	65-30 Kissena Blvd Flushing, NY 11367	PC	Modularity theorems for Galois representations and congruences	\$7,000
Queens College/CUNY jointly with Research Fdn/CUNY	65-30 Kissena Blvd Flushing, NY 11367	PC	Langlands Parameters, Converse Problems, and Rectifiers	\$7,000
Ramapo College of New Jersey	505 Ramapo Valley Road Mahwah, NJ 07430	PC	The twisted Kahler-Ricci Hermitian Yang-Mills and other coupled flows	\$7,000
Red Cloud Indian School	100 Mission Drive Pine Ridge, SD 57770-2100	PC	Employee matching	\$6,000
Regents of the University of Minnesota	450 McNamara Alumni Center 2003 Campus Delivery Code 200 Oak Street SE Minneapolis, MN 55455	PC	Evolution of Primordial Peptides, Proteins and the Genetic Code	\$199,051
Regents of the University of Minnesota - Twin Cities	450 McNamara Alumni Center 2003 Campus Delivery Code 200 Oak Street SE Minneapolis, MN 55455	PC	Long Time Regularity Properties in Dispersive and Hyperbolic PDE	\$7,000
Regents of the University of Minnesota - Twin Cities	450 McNamara Alumni Center 2003 Campus Delivery Code 200 Oak Street SE Minneapolis, MN 55455	PC	Multiscale Mathematical Modeling of 2D Materials	\$132,000
Regents of the University of Minnesota - Twin Cities	450 McNamara Alumni Center 2003 Campus Delivery Code 200 Oak Street SE Minneapolis, MN 55455	PC	Investigating the microbiome of the largest known bacteria	\$269,550
Regents of the University of Minnesota - Twin Cities	450 McNamara Alumni Center 2003 Campus Delivery Code 200 Oak Street SE Minneapolis, MN 55455	PC	ASD research enhanced by Minnesota community, roots and diversity	\$150,000
Regents of the University of Minnesota - Twin Cities	450 McNamara Alumni Center 2003 Campus Delivery Code 200 Oak Street SE Minneapolis, MN 55455	PC	Research on classical and quantum superintegrable systems	\$7,000
Regents of the University of Minnesota - Twin Cities	450 McNamara Alumni Center 2003 Campus Delivery Code 200 Oak Street SE Minneapolis, MN 55455	PC	Discrepancy theory and harmonic analysis	\$7,000
Research Foundation of CUNY on behalf of Brooklyn College	Brooklyn College Office of Research and Sponsored Programs 2900 Bedford Avenue Brooklyn, NY 11210	PC	Infinite-dimensional geodesic equations	\$14,415
Research Foundation of CUNY on behalf of Lehman College	250 Bedford Park Boulevard West Bronx, NY 10468-1527	PC	Analysis of Tree and Network Metrics	\$7,000
Research Foundation of CUNY on behalf of Lehman College	250 Bedford Park Boulevard West Bronx, NY 10468-1527	PC	Simons Collaboration Grant Statistics for Tree-Shaped Data	\$7,000

Research Foundation of CUNY on behalf of Lehman College	250 Bedford Park Boulevard West Bronx, NY 10468-1527	PC	Applications of Whitney towers in low-dimensional topology	\$7,000
Research Foundation of SUNY - University at Albany	Office for Sponsored Programs/MSC 312 1400 Washington Avenue Albany, NY 12222	PC	Scattering Theory, Semi-Classical Analysis, and the Aharonov-Bohm Effect	\$7,000
Research Foundation of SUNY - University at Albany	Office for Sponsored Programs/MSC 312 1400 Washington Avenue Albany, NY 12222	PC	Irrational Vertex Algebras, W-algebras, and Modular Forms	\$7,000
Research Foundation of SUNY - University at Albany	Office for Sponsored Programs/MSC 312 1400 Washington Avenue Albany, NY 12222	PC	Evolutionary Roles of RNA Aptamers in the Origin of Biological Catalysis	\$85,000
Research Foundation of SUNY - University at Albany	Office for Sponsored Programs/MSC 312 1400 Washington Avenue Albany, NY 12222	PC	Algebraic K-theory and equivariant stable homotopy theory	\$7,000
Research Foundation of SUNY - University at Albany	Office for Sponsored Programs/MSC 312 1400 Washington Avenue Albany, NY 12222	PC	New Theory and Algorithms For Nonstandard Predication Problems	\$7,000
Research Foundation of SUNY - University at Albany	Office for Sponsored Programs/MSC 312 1400 Washington Avenue Albany, NY 12222	PC	Compactness of operators, analytic function spaces, and frame theory	\$7,000
Research Foundation of SUNY - University at Albany	Office for Sponsored Programs/MSC 312 1400 Washington Avenue Albany, NY 12222	PC	Collaboration Grants for Mathematicians	\$7,000
Research Institute at Nationwide Children's Hospital	700 Children's Drive Columbus, OH 43205	PC	Clinical Site Network for the National Autism Cohort at NCH Ohio	\$150,000
RF CUNY on behalf of New York City College of Technology, CUNY	300 Jay Street Room Namm227 Brooklyn, NY 11201	PC	Vertex-algebraic structure of representations of affine Lie algebras	\$7,000
RFCUNY on behalf of Kingsborough Community College	2001 Oriental Blvd Brooklyn, NY 11235	PC	Research in Model Theory of Ordered Structures	\$7,000
Rider University	2083 Lawrenceville Road Lawrenceville, NJ 08648	PC	The topology of toric orbifolds and related spaces	\$7,000
Riverkeeper	20 Secor Road Ossining, NY 10562	PC	Employee matching	\$200
Robin Hood	826 Broadway, 9th Floor New York, NY 10003	PC	Employee Matching	\$600
Robin Hood	826 Broadway, 9th Floor New York, NY 10003	PC	Employee Matching	\$200
Robin Hood	826 Broadway, 9th Floor New York, NY 10003	PC	Employee Matching	\$200
Robin Hood	826 Broadway, 9th Floor New York, NY 10003	PC	Employee Matching	\$200
Rockefeller University	1230 York Avenue, New York City, NY 10065	PC	Platform for autism treatments from exome analysis	\$100,000
Romanian Institute of Science and Technology	Ciresilor 29, Ap 4 Cluj-Napoca, 400487	NC	Transylvanian Experimental Neuroscience Summer School	\$14,000
Room to Read	111 Sutter Street, 16th Floor San Francisco, CA 94104	PC	Employee Matching	\$200
Royal Swedish Academy of Sciences	Lilla Frescativagen 4A Stockholm, 10405	NC	Support for two larger conferences at Institut Mittag-Leffler	\$100,000
Rush University Medical Center	1653 W Congress Parkway Chicago, IL 60612	PC	Rush-Chicagoland SPARK	\$150,000
Rutgers, The State University -Newark Campus	Research Office 249 University Ave , Suite 206 Blumenthal Hall Newark, NJ 07102	PC	Geometry of Kahler manifold	\$7,000
Rutgers, The State University of New Jersey	Office of Research & Sponsored Programs 33 Knightsbridge Road, 2nd Floor, East Wing Piscataway, NJ 088543925	PC	Simons Collaboration on the Many Electron Problem - PI, Real Materials Group	\$150,000
Rutgers, The State University of New Jersey	Office of Research & Sponsored Programs 33 Knightsbridge Road, 2nd Floor, East Wing Piscataway, NJ 088543925	PC	Simons Investigator in Physics	\$132,000

Rutgers, The State University of New Jersey	Office of Research & Sponsored Programs 33 Knightsbridge Road, 2nd Floor, East Wing Piscataway, NJ 088543925	PC	Simons Collaboration on Algorithms and Geometry - PI	\$80,000
Rutgers, The State University of New Jersey	Office of Research & Sponsored Programs 33 Knightsbridge Road, 2nd Floor, East Wing Piscataway, NJ 088543925	PC	Graduate Theory Fellowship	\$24,000
Rutgers, The State University of New Jersey	Office of Research & Sponsored Programs 33 Knightsbridge Road, 2nd Floor, East Wing Piscataway, NJ 088543925	PC	Homological Mirror Symmetry and Applications	\$101,410
Rutgers, The State University of New Jersey	Office of Research & Sponsored Programs 33 Knightsbridge Road, 2nd Floor, East Wing Piscataway, NJ 088543925	PC	Cakoni Simon Fellows in Mathematics - Inverse Problems	\$132,000
Rutgers, The State University of New Jersey	Office of Research & Sponsored Programs 33 Knightsbridge Road, 2nd Floor, East Wing Piscataway, NJ 088543925	PC	Scattering and Dynamics of Dispersive Waves and Solitons	\$130,800
Rutgers, The State University of New Jersey	Office of Research & Sponsored Programs 33 Knightsbridge Road, 2nd Floor, East Wing Piscataway, NJ 088543925	PC	Shrinkage procedures for point and predictive density estimation	\$7,000
Rutgers, The State University of New Jersey	Office of Research & Sponsored Programs 33 Knightsbridge Road, 2nd Floor, East Wing Piscataway, NJ 088543925	PC	Group symmetry and applications	\$7,000
Saint Louis University	221 North Grand Boulevard St Louis, MO 63103	PC	The Kadison-Singer problem and the HRT conjecture	\$7,000
Saint Louis University	221 North Grand Boulevard St Louis, MO 63103	PC	Coordinate systems of Banach spaces	\$7,000
Saint Louis University	221 North Grand Boulevard St Louis, MO 63103	PC	Simons Foundation Collaboration Grant Proposal for Srivastava	\$7,000
Sam Houston State University	903 Bowers Blvd SHSU Box 2392 Huntsville, TX 77341-2392	PC	Applied Algebraic Geometry	\$7,000
San Jose State University Research Foundation	210 North Fourth Street, 4 Floor San Jose, CA 95112-5569	PC	2015 Simons Travel Grant Application	\$7,000
Santa Clara University	500 El Camino Real c/o Sponsored Projects Office Santa Clara, CA 95053-0250	PC	Rationality and L^2 -topology of $CAT(0)$ groups	\$7,000
Sapienza University of Rome	Corso della Repubblica, 79 Latina, 04100	NC	Cracking the glass problem	\$85,995
Scarsdale High School PTA Scholarship Fund for College	PO Box 147 H Scarsdale, NY 10583	PC	Employee Matching	\$400
Scarsdale Volunteer Ambulance Corps	PO Box 92 Scarsdale, NY 10583	PC	Employee Matching	\$100
Scenic Hudson Inc	1 Civic Center Plaza, Ste 200 Poughkeepsie, NY 12601	PC	Employee Matching	\$100
School Community Council The John Melser Charrette School PS 3	490 Hudson Street New York, NY 10014	PC	Employee Matching	\$2,000
Science Festival Foundation	230 West 41st Street, Suite 1600 New York, NY 10036	PC	World Science Festival Outright and Matching Grant	\$3,600,000
Seattle University	901 12th Ave P O Box 222000 Seattle, WA 98122	PC	Allison Henrich Knot Theory Collaboration	\$7,000
Seattle University	901 12th Ave P O Box 222000 Seattle, WA 98122	PC	Geometric flows of asymptotically hyperbolic and edge metrics	\$7,000
Second Harvest Food Bank	Administrative Offices & Santa Clara County Distribution Center 750 Curtner Avenue San Jose, CA 95125	PC	Employee Matching	\$209
Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences	320 Yueyang Road Shanghai, 200031	NC	Imaging cortico-subcortical circuits during perceptual decision making	\$75,000

Shiloh Missionary Baptist Church	185 Eddie Robinson, Sr Drive Baton Rouge, LA 70802	PC	Employee Matching	\$1,000
Shining Hope for Communities	175 Varick St 5th Floor New York, NY 10014	PC	Employee Matching	\$480
Smithsonian Tropical Research Institute	111 Jefferson Drive SW Quad Suite 3123, 705 Washington, DC 20013-7012	PC	The Role of Microbiomes in Shaping the Ecology and Evolution of Tropical Forest Ecosystems	\$500,000
Southern Illinois University Carbondale	Southern Illinois University Office of Sponsored Projects Administration 900 S Normal Ave SIUC Mailcode 4709 Carbondale, IL 62901-4302	PC	Representations of p-adic groups and Iwasawa modules	\$7,000
Southern Methodist University	Southern Methodist University, Office of Research and Graduate Studies 6425 Boaz Lane, Suite 101 Dallas, TX 75205	PC	Statistical Inference from System-Based Reliability Experiment	\$7,000
Southern Methodist University	Southern Methodist University, Office of Research and Graduate Studies 6425 Boaz Lane, Suite 101 Dallas, TX 75205	PC	Evolution dynamics of ensemble averages in turbulence	\$7,000
St Baldrick's Foundation	1333 S Mayflower Avenue, Suite 400 Monrovia, CA 91016	PC	Employee Matching	\$1,100
St John's University, New York	8000 Utopia Parkway Queens, NY 11439	PC	Coarse Geometry of Groups and Assembly Maps in Algebraic K- and L-theory	\$7,000
St Jude Children's Research Hospital	262 Danny Thomas Place, Mail Stop 733 Memphis, TN 38105-3678	PC	Employee Matching	\$1,000
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Simons Investigator in Mathematics	\$132,000
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Simons Investigator in Mathematics	\$132,000
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Neural mechanisms of social reward in mouse models of autism	\$249,994
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Chromatin remodeling in autism	\$250,000
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Neurologin function in the prefrontal cortex and autism pathogenesis	\$250,000
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Decoding Affective Prosody and Communication Circuits in Autism	\$287,870
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Network mechanisms for correcting error in high-order cortical regions	\$300,000
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Synergy between genetic risk and placental vulnerability to immune events	\$251,979
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Large-Scale Data and Computational Framework for Circuit Investigation	\$279,000
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Simons Investigator in Physics	\$132,000
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Development of Genetic Methods for Aiptasia, a Model System for Coral Biology	\$401,450
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Detecting and Treating Social Impairments in a Monkey Model	\$272,775
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Randomized Controlled Pilot Trial of Pregnenolone in Autism	\$125,000
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	It from Qubit Quantum Fields, Gravity, and Information	\$289,375

Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Simons Investigator in Computer Science	\$132,000
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	It from Qubit Quantum Fields, Gravity, and Information	\$110,000
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Dissecting the Origins of Food-Related Autoimmune Disorders	\$144,455
Stanford University	Research Management Group 3172 Porter Drive Palo Alto, CA 94304	PC	Stanford Summer Research Program - SFARI Participants	\$19,994
Staten Island Children's Theatre Association of the Staten Island Mental Health Society	669 Castleton Ave Staten Island, NY 10301	PC	Employee Matching	\$539
Stony Brook Foundation, Inc	230 Administration Stony Brook University Stony Brook, NY 11794-1188	PC	Undergraduate and Creative Activities (URECA)	\$82,000
Stony Brook Foundation, Inc	230 Administration Stony Brook University Stony Brook, NY 11794-1188	PC	Simons Summer Research Program	\$54,000
Stony Brook Foundation, Inc	230 Administration Stony Brook University Stony Brook, NY 11794-1188	PC	Employee Matching	\$2,786
Stony Brook Foundation, Inc	230 Administration Stony Brook University Stony Brook, NY 11794-1188	PC	Simons Instructorships in Mathematics	\$194,400
Stony Brook Foundation, Inc	230 Administration Stony Brook University Stony Brook, NY 11794-1188	PC	Reimagining Stony Brook Fund - Challenge	\$1,250,000
Stony Brook Foundation, Inc	230 Administration Stony Brook University Stony Brook, NY 11794-1188	PC	Reimagining Stony Brook Fund - Pledge	\$1,250,000
Stony Brook Foundation, Inc	230 Administration Stony Brook University Stony Brook, NY 11794-1188	PC	2014 Turkana Basin Institute Challenge Fund	\$1,250,000
Stony Brook Foundation, Inc	230 Administration Stony Brook University Stony Brook, NY 11794-1188	PC	The Stony Brook GI Biobank	\$250,000
Stony Brook Foundation, Inc	230 Administration Stony Brook University Stony Brook, NY 11794-1188	PC	Simons Center for Geometry and Physics Director's House Piano	\$15,250
Stony Brook Foundation, Inc	230 Administration Stony Brook University Stony Brook, NY 11794-1188	PC	Simons Math/Physics Operating Fund	\$2,493,644
Stony Brook Foundation, Inc	230 Administration Stony Brook University Stony Brook, NY 11794-1188	PC	Quasi-Endowment	\$5,000,000
Stony Brook University	330 Administration Stony Brook, NY 11794-1601	PC	Simons Society of Fellows - Senior Fellow	\$30,000
Stony Brook University	330 Administration Stony Brook, NY 11794-1601	PC	Simons Collaboration on the Non-perturbative Bootstrap	\$269,000
Stony Brook University	330 Administration Stony Brook, NY 11794-1601	PC	Special Holonomy in Geometry, Analysis, and Physics	\$145,104
Stony Brook University	330 Administration Stony Brook, NY 11794-1601	PC	Special Holonomy in Geometry, Analysis, and Physics	\$44,568
Storyville Center for the Spoken Word	481 Broadway, 3rd Floor New York, NY 10013	PC	Employee Matching	\$300
Strategic Education Research Partnership Institute (SERP)	1100 Connecticut Ave, Suite 1310 Washington, DC 20036	PC	SERP Improving Science Teaching and Learning in the Middle Grades (Word Generation Science)	\$668,292
Studio Museum of Harlem	144 west 125th street NY, NY 10027	PC	Employee Matching	\$100
Swim Across America	11600 N Community House Rd , Suite 100 Charlotte, NC 28277	PC	Employee Matching	\$100
Syracuse University	Office of Sponsored Programs 211 Lyman Hall Syracuse, NY 13244-1200	PC	Levy Processes and Insurance Risk	\$7,000
Syracuse University	Office of Sponsored Programs 211 Lyman Hall Syracuse, NY 13244-1200	PC	Employee Matching	\$400
Syracuse University	Office of Sponsored Programs 211 Lyman Hall Syracuse, NY 13244-1200	PC	Properties of spaces of holomorphic and plurisubharmonic functions	\$7,000

Syracuse University	Office of Sponsored Programs 211 Lyman Hall Syracuse, NY 13244-1200	PC	Models of collective cell migration and sorting	\$77,950
Syracuse University	Office of Sponsored Programs 211 Lyman Hall Syracuse, NY 13244-1200	PC	Riemannian Geometry for manifolds with density	\$7,000
Syracuse University	Office of Sponsored Programs 211 Lyman Hall Syracuse, NY 13244-1200	PC	Geometric Function Theory in Several Complex Variables and Complex Geometry	\$7,000
Syracuse University	Office of Sponsored Programs 211 Lyman Hall Syracuse, NY 13244-1200	PC	Simons Investigator in MMLS	\$66,000
Syracuse University	Office of Sponsored Programs 211 Lyman Hall Syracuse, NY 13244-1200	PC	Cracking the glass problem	\$68,251
Syracuse University	Office of Sponsored Programs 211 Lyman Hall Syracuse, NY 13244-1200	PC	Models of collective cell migration and sorting	\$78,157
Temple University	3340 North Broad Street Philadelphia, PA 19140	PC	Geometric Measure Theory and Higher Order Elliptic Problems	\$7,000
Texas A&M University	Sponsored Research Services 400 Harvey Mitchell Parkway S , Ste 300 College Station, TX 77845	PC	Number theory related to special values of L-functions and modular forms	\$7,000
Texas A&M University	Sponsored Research Services 400 Harvey Mitchell Parkway S , Ste 300 College Station, TX 77845	PC	Groups and dynamical systems	\$7,000
Texas A&M University-Commerce	P O Box 3011 Commerce, TX 75429	PC	Biharmonic maps and biharmonic submanifolds	\$7,000
Texas Christian University	2800 South University Drive Sadler Hall 1015 P O Box 297023 Fort Worth, TX 76129	PC	Global analysis of G-manifolds and foliations	\$7,000
Texas Christian University	2800 South University Drive Sadler Hall 1015 P O Box 297023 Fort Worth, TX 76129	PC	Characters and p-adic representation theory	\$7,000
Texas State University	601 University Drive JCK 420 San Marcos, TX 78666	PC	Orbits in finite group actions	\$7,000
Texas Tech University	349 Administration Building Box 41035 Lubbock, TX 79409	PC	Algebraic and topological structures in quantum field theory	\$7,000
Texas Tech University	349 Administration Building Box 41035 Lubbock, TX 79409	PC	Hypergeometric Functions and Modular Forms	\$7,000
Texas Tech University	349 Administration Building Box 41035 Lubbock, TX 79409	PC	Homological studies of local rings	\$7,000
The Abdus Salam International Centre for Theoretical Physics	Strada Costiera 11 Trieste, I - 34151	NC	ICTP Associates Program	\$150,000
The Abdus Salam International Centre for Theoretical Physics	Strada Costiera 11 Trieste, I - 34151	NC	PhD Fellowships at ICTP	\$50,000
The Arc of Bergen and Passaic Counties	223 Moore Street Hackensack, NJ 07601	PC	Employee Matching	\$200
The Board of Regents of the University of Oklahoma (University of Oklahoma)	Office of Research Services 201 Stephenson Parkway Five Partners Place, Suite 3100 Norman, OK 73019-9705	PC	Periods and Functorial Transfer	\$7,000
The Board of Regents of the University of Oklahoma (University of Oklahoma)	Office of Research Services 201 Stephenson Parkway Five Partners Place, Suite 3100 Norman, OK 73019-9705	PC	Fourier Bases on Fractal Hilbert Spaces	\$7,000
The Board of Regents of the University of Oklahoma (University of Oklahoma)	Office of Research Services 201 Stephenson Parkway Five Partners Place, Suite 3100 Norman, OK 73019-9705	PC	Collaboration on the extension of Hardy-Littlewood-Sobolev inequality	\$7,000
The Board of Regents of the University of Oklahoma (University of Oklahoma)	Office of Research Services 201 Stephenson Parkway Five Partners Place, Suite 3100 Norman, OK 73019-9705	PC	Non-compact homogeneous Einstein and Ricci soliton spaces	\$7,000

The Board of Regents of the University of Oklahoma (University of Oklahoma)	Office of Research Services 201 Stephenson Parkway Five Partners Place, Suite 3100 Norman, OK 73019-9705	PC	Asymptotic Geometry of Subgroups of Non-Positively Curved Groups	\$7,000
The Board of Trustees of Eastern Illinois University	600 Lincoln Avenue Charleston, IL 61920	PC	Collaboration Grant 2013	\$7,000
The Board of Trustees of Illinois State University	Campus Box 3040 Normal, IL 61790-3040	PC	Mathieu Subspaces	\$7,000
The Board of Trustees of the Leland Stanford Junior University (Stanford)	3160 Porter Drive, Suite 100 Palo Alto, CA 94304	PC	Travel Support, Capillary Interface Studies	\$7,000
The Board of Trustees of the Leland Stanford Junior University (Stanford)	3160 Porter Drive, Suite 100 Palo Alto, CA 94304	PC	Towards a theory of multi-neuronal dimensionality, dynamics and measurement	\$210,000
The Board of Trustees of the Leland Stanford Junior University (Stanford)	3160 Porter Drive, Suite 100 Palo Alto, CA 94304	PC	Simons Investigator in Computer Science	\$132,000
The Board of Trustees of the Leland Stanford Junior University (Stanford)	3160 Porter Drive, Suite 100 Palo Alto, CA 94304	PC	Neurobiology of Rai1, a critical gene for syndromic ASDs	\$175,000
The Board of Trustees of the Leland Stanford Junior University (Stanford)	3160 Porter Drive, Suite 100 Palo Alto, CA 94304	PC	Employee Matching	\$200
The Board of Trustees of the Leland Stanford Junior University (Stanford)	3160 Porter Drive, Suite 100 Palo Alto, CA 94304	PC	Atomistic exploration of abiogenesis with a nanoreactor	\$85,000
The Board of Trustees of the Leland Stanford Junior University (Stanford)	3160 Porter Drive, Suite 100 Palo Alto, CA 94304	PC	Minimal Surfaces and Mean Curvature Flow	\$132,000
The Board of Trustees of the Leland Stanford Junior University (Stanford)	3160 Porter Drive, Suite 100 Palo Alto, CA 94304	PC	Simons Investigator in MMLS	\$66,000
The Board of Trustees of the Leland Stanford Junior University (Stanford)	3160 Porter Drive, Suite 100 Palo Alto, CA 94304	PC	Gas Dynamics and Kinetic Theory	\$7,000
The Board of Trustees of the University of Illinois	1901 S First Street, Suite A M/C 685 Champaign Illinois 61820-7406 Champaign, IL 61822	PC	Primes in arithmetic geometry	\$7,000
The Board of Trustees of the University of Illinois - Chicago	1737 W Polk St M/C 672 AOB 304 Chicago, IL 60612-7227	PC	Topology of algebraic varieties and singularities	\$7,000
The Board of Trustees of the University of Illinois - Chicago	1737 W Polk St M/C 672 AOB 304 Chicago, IL 60612-7227	PC	Problems in Number Theory	\$7,000
The Board of Trustees of the University of Illinois - Chicago	1737 W Polk St M/C 672 AOB 304 Chicago, IL 60612-7227	PC	CHD8 and beta-catenin signaling in autism	\$62,500
The Board of Trustees of the University of Illinois - Chicago	1737 W Polk St M/C 672 AOB 304 Chicago, IL 60612-7227	PC	Research in dynamical systems and foliation theory	\$7,000
The Board of Trustees of the University of Illinois - Chicago	1737 W Polk St M/C 672 AOB 304 Chicago, IL 60612-7227	PC	Arakelov Theory, Intersection Theory, and Motives	\$7,000
The Board of Trustees of the University of Illinois - Chicago	1737 W Polk St M/C 672 AOB 304 Chicago, IL 60612-7227	PC	First order and infinitary model theory	\$7,000
The Board of Trustees of the University of Illinois - Chicago	1737 W Polk St M/C 672 AOB 304 Chicago, IL 60612-7227	PC	Combinatorial Knot Theory	\$7,000
The Board of Trustees of the University of Illinois - Chicago	1737 W Polk St M/C 672 AOB 304 Chicago, IL 60612-7227	PC	Collaboration Grant 2016 - Whyte	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Vertex Algebras	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Global Bifurcations in Wave Equations	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Hamiltonian dynamics and averaging in PDEs	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Secure error-correcting codes	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Sums of powers of polynomials	\$7,000

The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Operator Spaces and Applications	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Molecular Roots of the Social Brain	\$741,871
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Extremal hypergraphs and codes	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	2014 Simons Collaboration Grant - Albin	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Proving the Claims of Ramanujan in His Lost Notebook	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Statistical Inference for Processes with Long Memory and Applications	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Low-rate renewal theory and decentralized parameter estimation	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Quasiconformal Analysis	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Complex analysis and applications	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Generic and Coarse Computability and Computational Complexity	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Simons Investigator in MMLS	\$66,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Model Theory for Structures from Functional Analysis	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Number theory and automorphic forms	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Topics in Markov Processes	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Optimal Energies in Spectral Theory and Wavelet Frames in Harmonic Analysis	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Symplectic rigidity and Hamiltonian dynamics	\$7,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Simons Collaboration on the Many Electron Problem - PI, Monte Carlo Group	\$31,073
The Board of Trustees of University of Illinois	Henry Administration Building 506 S Wright Street Urbana Illinois 61801-3620 Urbana, IL 61801	PC	Global analysis of nonlinear dispersive partial differential equations	\$7,000

The Board of Trustees of University of Illinois	Henry Administration Building 506 S Wright Street Urbana Illinois 61801-3620 Urbana, IL 61801	PC	Analysis of Surface Water Waves	\$101,440
The Carter Center	One Copenhill 453 Freedom Pkwy Atlanta, GA 30307	PC	Employee Matching	\$200
The Center for Discovery, Inc	PO Box 840 Benmosche Road Harris, NY 12742	PC	Employee Matching	\$1,000
The Children's Hospital of Philadelphia	The Children's Hospital of Philadelphia Research Institute 3615 Civic Center Blvd Philadelphia, PA 19104	PC	CHOP National Autism Cohort Study	\$150,000
The Children's Hospital of Philadelphia	The Children's Hospital of Philadelphia Research Institute 3615 Civic Center Blvd Philadelphia, PA 19104	PC	MEG/MRS Dose Response Study of STX209 in ASD	\$293,276
The City College of New York	160 Convent Avenue New York, NY 10031	PC	Special Metrics on Kahler manifolds	\$7,000
The City College of New York	160 Convent Avenue New York, NY 10031	PC	Localized topological pressure and the geometry of rotation sets	\$7,000
The City College of New York	160 Convent Avenue New York, NY 10031	PC	Unique continuation properties of the Schrodinger operator	\$7,000
The Conversation US, Inc	PO Box 15702 Boston, MA 02215	PC	Bringing scientists and editors together to improve community understanding of basic science	\$200,000
The Corporation of Yaddo	P O Box 395 Saratoga Springs, NY 12866	PC	Employee Matching	\$200
The Curators of the University of Missouri	Office of Sponsored Programs Administration 115 Business Loop 70W, Mizzou North, Room 501 Columbia, MO 65211	PC	Algebraic Geometry and Applications	\$7,000
The Curators of the University of Missouri	Office of Sponsored Programs Administration 115 Business Loop 70W, Mizzou North, Room 501 Columbia, MO 65211	PC	Thompson Center Clinical Site for Simons National Autism Cohort	\$150,000
The Curators of the University of Missouri	Office of Sponsored Programs Administration 115 Business Loop 70W, Mizzou North, Room 501 Columbia, MO 65211	PC	Boundary Problems and Singular Integrals on Rough Subdomains on Manifolds	\$7,000
The Curators of the University of Missouri	Office of Sponsored Programs Administration 115 Business Loop 70W, Mizzou North, Room 501 Columbia, MO 65211	PC	Research in geometric scattering theory	\$7,000
The Curators of the University of Missouri	Office of Sponsored Programs Administration 115 Business Loop 70W, Mizzou North, Room 501 Columbia, MO 65211	PC	Simons Simplex Collection Support Grant	\$10,000
The Esther A. & Joseph Klingenstein Fund, Inc	125 Park Avenue, Suite 1700 New York, NY 10017	PC	Klingenstein-Simons Fellowship Awards in the Neurosciences	\$1,300,000
The FamilieSCN2a Foundation	P O Box 75 Granby, MA 01033	PC	FamilieSCN2a Foundation Family and Professional Conference	\$5,000
The Florida International University Board of Trustees	11200 SW 8th Street MARC-430 Miami, FL 33199	PC	Geometry of complex non-kaehler manifolds	\$7,000
The Florida International University Board of Trustees	11200 SW 8th Street MARC-430 Miami, FL 33199	PC	Nonnegative Signal Separation Sparsity, Algorithms, and Applications	\$7,000
The Friendship Circle	419 East 77th Street New York, NY 10075	PC	Employee Matching	\$500
The George Washington University	Office of Vice President for Research Rice Hall 2121 Eye St NW Room 601 Washington, DC 20052	PC	Dynamical systems and aperiodic order	\$7,000
The George Washington University	Office of Vice President for Research Rice Hall 2121 Eye St NW Room 601 Washington, DC 20052	PC	Khovanov Homology Theories and their Applications	\$7,000

The George Washington University	Office of Vice President for Research Rice Hall 2121 Eye St NW Room 601 Washington, DC 20052	PC	Disruption of Cortical Projection Neurons, Circuits, and Cognition in ASD	\$248,843
The George Washington University	Office of Vice President for Research Rice Hall 2121 Eye St NW Room 601 Washington, DC 20052	PC	Algebraic structures motivated by and applied to Knot Theory	\$7,000
The George Washington University	Office of Vice President for Research Rice Hall 2121 Eye St NW Room 601 Washington, DC 20052	PC	Dysregulation of mTor/Tsc in 22q11DS Autism Model	\$125,000
The George Washington University	Office of Vice President for Research Rice Hall 2121 Eye St NW Room 601 Washington, DC 20052	PC	A phase field model on cell migration	\$7,000
The George Washington University	Office of Vice President for Research Rice Hall 2121 Eye St NW Room 601 Washington, DC 20052	PC	Sufficient Dimension Reduction Methodology	\$7,000
The George Washington University	Office of Vice President for Research Rice Hall 2121 Eye St NW Room 601 Washington, DC 20052	PC	Computability in algebraic structures	\$7,000
The Governors of the University of Alberta	c/o Research Services Office 222 Campus Towers 8625 112 Street Edmonton, Alberta T6G 2E1	NC	MAGEL2, a candidate gene for autism and Prader-Willi syndrome	\$53,753
The Hole in the Wall Gang Camp	565 Ashford Center Road Ashford, CT 06278	PC	Employee Matching	\$200
The Hospital for Sick Children	555 University Avenue Toronto, Ontario M5G 1X8	NC	Brain imaging of treatment response	\$124,334
The Howard University Inc	Howard University Research Administrative Services 525 Bryant Street NW Suite 137 Washington, DC 20059	PC	Explicit Methods for Extended Time Stepping in Stiff Nonsymmetric Problems	\$7,000
The Howard University Inc	Howard University Research Administrative Services 525 Bryant Street NW Suite 137 Washington, DC 20059	PC	Representations of metaplectic groups	\$7,000
The Hudson River Museum of Westchester	511 Warburton Ave Yonkers, NY 10701	PC	Employee Matching	\$100
The Jane Coffin Childs Memorial Fund for Medical Research	333 Cedar Street P O Box 208000 New Haven, CT 06520-8000	PC	2013 Jane Coffin Childs Memorial Fund for Medical Research Fellowship Grant	\$50,000
The Jane Coffin Childs Memorial Fund for Medical Research	333 Cedar Street P O Box 208000 New Haven, CT 06520-8000	PC	2014 Jane Coffin Childs Memorial Fund for Medical Research Fellowship Grant	\$110,200
The Jane Coffin Childs Memorial Fund for Medical Research	333 Cedar Street P O Box 208000 New Haven, CT 06520-8000	PC	2015 Jane Coffin Childs Memorial Fund for Medical Research Fellowship Grant	\$109,450
The Jane Coffin Childs Memorial Fund for Medical Research	333 Cedar Street P O Box 208000 New Haven, CT 06520-8000	PC	2016 Jane Coffin Childs Memorial Fund for Medical Research Fellowship Grant	\$55,100
The Leukemia and Lymphoma Society	61 Broadway, Suite 400 New York, NY 10006	PC	Employee Matching	\$200
The Nature Conservancy	201 Mission Street, 4th Floor San Francisco, CA 94105	PC	Employee Matching	\$600
The Nature Conservancy	201 Mission Street, 4th Floor San Francisco, CA 94105	PC	Employee Matching	\$800
The New York Botanical Garden	200th Street and Kazimiroff Boulevard Bronx, NY 10458	PC	Employee Matching	\$128
The Ohio State University	1960 Kenny Road Columbus, OH 43210	PC	Simons Investigator in Physics	\$132,000
The Ohio State University	1960 Kenny Road Columbus, OH 43210	PC	Automorphic representations and trace formulae	\$7,000
The Ohio State University	1960 Kenny Road Columbus, OH 43210	PC	Algebraic geometry singularities, enumerative geometry, tropical geometry	\$7,000
The Ohio State University	1960 Kenny Road Columbus, OH 43210	PC	The Classification of Finite Simple Groups	\$7,000

The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	Modular Varieties over Function Fields and Applications	\$7,000
The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	Brauer groups, abelian varieties and K3 surfaces	\$7,000
The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	Research on Integrable Systems and Its Applications	\$7,000
The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	Collaborative Research in Combinatorics and Number Theory	\$7,000
The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	Application of fluid dynamics into biological systems	\$7,000
The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	Noncongruence modular forms and combinatorial zeta and L-functions	\$7,000
The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	The RNA World inside compartments A study of formation and functions	\$84,350
The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	Dissecting phenotypic heterogeneity associated with 16p12.1 deletion	\$75,000
The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	Cocycles and rigidity in hyperbolic dynamics	\$7,000
The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	Analytic Number Theory	\$7,000
THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN	1 College Green Dublin, 2	NC	Simons Foundation Visiting Professors and Scholars at the HMI Dublin	\$99,855
The Rector and Visitors of the University of Virginia	Office of Sponsored Programs P O Box 400195 Charlottesville, VA 22904-4195	PC	Right-angled Artin subgroups of real algebraic groups	\$7,000
The Regents of New Mexico State University	Office of Grants and Contracts PO Box 30002 MSC OGC Anderson Hall E1200 1050 Stewart Street Las Cruces, NM 88003-8002	PC	Parameters, Blowup Algebras and Connections to Combinatorics	\$7,000
The Regents of New Mexico State University	Office of Grants and Contracts PO Box 30002 MSC OGC Anderson Hall E1200 1050 Stewart Street Las Cruces, NM 88003-8002	PC	Topological-defects in nonlinear elliptic problems	\$7,000
The Regents of the University of California (Davis)	1850 Research Park Drive, Suite 300 Davis, CA 95618-6153	PC	Large Random Matrices	\$7,000
The Regents of the University of California (Davis)	1850 Research Park Drive, Suite 300 Davis, CA 95618-6153	PC	UC Davis MIND Institute Clinical Site for National Autism Cohort	\$150,000
The Regents of the University of California (Irvine)	University of California Irvine 141 Innovation Suite 250 Irvine, CA 92697-7600	PC	Cohomology of Differential Forms on Symplectic Manifolds	\$7,000
The Regents of the University of California (Irvine)	University of California Irvine 141 Innovation Suite 250 Irvine, CA 92697-7600	PC	Simons Collaboration on the Many Electron Problem - Director, Tensor Networks Group	\$266,000
The Regents of the University of California (Irvine)	University of California Irvine 141 Innovation Suite 250 Irvine, CA 92697-7600	PC	Simons Investigator in Physics	\$132,000
The Regents of the University of California (University of California Davis)	University of California Office of Research / Sponsored Programs 1850 Research Park Drive, Suite 300 Davis, CA 95618	PC	Generalized Brill-Noether Theory, Degenerations and Tropical Geometry	\$7,000
The Regents of the University of California (University of California Davis)	University of California Office of Research / Sponsored Programs 1850 Research Park Drive, Suite 300 Davis, CA 95618	PC	Conformal Geometry and Physics	\$7,000

The Regents of the University of California (University of California Davis)	University of California Office of Research / Sponsored Programs 1850 Research Park Drive, Suite 300 Davis, CA 95618	PC	Combinatorial representation theory of algebras related to S_n	\$7,000
The Regents of the University of California (University of California Davis)	University of California Office of Research / Sponsored Programs 1850 Research Park Drive, Suite 300 Davis, CA 95618	PC	Immune signaling in the developing brain in mouse models of ASD	\$200,000
The Regents of the University of California (University of California Davis)	University of California Office of Research / Sponsored Programs 1850 Research Park Drive, Suite 300 Davis, CA 95618	PC	Mechanisms of Context-Dependent Neural Integration and Short-Term Memory	\$200,000
The Regents of the University of California (University of California Davis)	University of California Office of Research / Sponsored Programs 1850 Research Park Drive, Suite 300 Davis, CA 95618	PC	Assessing the functional effects of enhancer mutations identified in the Simons Simplex Collection via mouse models	\$104,700
The Regents of the University of California (University of California Davis)	University of California Office of Research / Sponsored Programs 1850 Research Park Drive, Suite 300 Davis, CA 95618	PC	Problems in algebraic and geometric combinatorics	\$7,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Simons Institute for the Theory of Computing	\$5,700,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Simons Investigator in Physics	\$132,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Simons Investigator in Physics	\$132,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	How do autism-related mutations affect basal ganglia function?	\$62,500
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Travel grant to complete research c is Decidable & Monoids Acting on Trees	\$7,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Simons Investigator in the Mathematical Modeling of Living Systems	\$66,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Comparison of cortical circuit dysfunction in ASD model mice	\$125,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Simons Investigator in Mathematics	\$132,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Cosmic Axion Spin Precession Experiment (CASPER)	\$222,744
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Homological Mirror Symmetry and Applications	\$156,281
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Contact homology, symplectic embeddings, and dynamics	\$129,824

The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Topics in Effective Theory and Neutrino Astrophysics	\$150,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Testing Theories of Particle Physics and Dark Matter	\$150,000
The Regents of the University of California, Berkeley	330B Blum Hall MC 5580 Berkeley, CA 94720	PC	Puzzles of Naturalness Quantum Gravity, Particles and Strings	\$150,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Simons Investigator in Physics	\$66,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Editing of the Neural Representation of Perception	\$75,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Harmonic Analysis on Lie Groups and Homogeneous Spaces	\$7,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Simons Investigator in the Mathematical Modeling of Living Systems	\$84,026
The Regents of the University of California, Los Angeles	University of California Los Angeles Office of Contract and Grant Administration 10889 Wilshire Boulevard, Suite 700 Los Angeles, CA 90095-1406	PC	Simons Investigator in Mathematics	\$132,000
The Regents of the University of California, Los Angeles	University of California Los Angeles Office of Contract and Grant Administration 10889 Wilshire Boulevard, Suite 700 Los Angeles, CA 90095-1406	PC	A Search for Isotopic Traces of Life in 4.0-4.4 Billion Year Old Minerals	\$85,000
The Regents of the University of California, Los Angeles	University of California Los Angeles Office of Contract and Grant Administration 10889 Wilshire Boulevard, Suite 700 Los Angeles, CA 90095-1406	PC	Parameterizing Neural Habituation in ASD with Sensory Overresponsivity	\$124,973
The Regents of the University of California, Los Angeles	University of California Los Angeles Office of Contract and Grant Administration 10889 Wilshire Boulevard, Suite 700 Los Angeles, CA 90095-1406	PC	Computing on Private Data	\$24,000
The Regents of the University of California, Los Angeles	University of California Los Angeles Office of Contract and Grant Administration 10889 Wilshire Boulevard, Suite 700 Los Angeles, CA 90095-1406	PC	Simons Investigator in Mathematics	\$132,000
The Regents of the University of California, Los Angeles	University of California Los Angeles Office of Contract and Grant Administration 10889 Wilshire Boulevard, Suite 700 Los Angeles, CA 90095-1406	PC	SFARI Clinical Site Network for the National Autism Cohort	\$149,212
The Regents of the University of California, Los Angeles	University of California Los Angeles Office of Contract and Grant Administration 10889 Wilshire Boulevard, Suite 700 Los Angeles, CA 90095-1406	PC	Approximate Embeddings, Rigidity, and Classification in l_1 Factors	\$131,995
The Regents of the University of California, Los Angeles	University of California Los Angeles Office of Contract and Grant Administration 10889 Wilshire Boulevard, Suite 700 Los Angeles, CA 90095-1406	PC	Targeted Grants for Institutes - Institute for Pure and Applied Mathematics	\$192,985

The Regents of the University of California, Los Angeles	University of California Los Angeles Office of Contract and Grant Administration 10889 Wilshire Boulevard, Suite 700 Los Angeles, CA 90095-1406	PC	Neural circuitry linking oxytocin deficiency and social impairment in ASD	\$75,000
The Regents of the University of California, Los Angeles	University of California Los Angeles Office of Contract and Grant Administration 10889 Wilshire Boulevard, Suite 700 Los Angeles, CA 90095-1406	PC	Simons Simplex Collection Support Grant	\$13,200
The Regents of the University of California, Riverside (UCR)	245 University Office Building Riverside, CA 92521-0217	PC	Quantum folding and categorical methods	\$7,000
The Regents of the University of California, Riverside (UCR)	245 University Office Building Riverside, CA 92521-0217	PC	A study of analytical aspect of Ricci flow	\$7,000
The Regents of the University of California, Riverside (UCR)	245 University Office Building Riverside, CA 92521-0217	PC	Comparison and Inverse Comparison Geometry	\$7,000
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Statistics for points on curves over finite fields	\$7,000
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Simons Investigator in Computer Science	\$132,000
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Mutations in noncoding DNA and the missing heritability of autism	\$122,020
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Coarse-graining bacterial metabolic network from molecules to growth physiology	\$119,811
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Learning how living systems navigate turbulent environments	\$100,000
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Simons Fellowship Elizabeth Jenkins	\$2,917
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Translational dysregulation of the RhoA pathway in autism	\$250,605
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Illuminating the role of glia in a zebrafish model of Rett syndrome	\$125,000
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Long time evolution for dispersive PDE's	\$7,000
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Establishing a San Diego and Southwest Regional Autism Cohort	\$150,000
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Simons Investigator in Mathematics	\$66,000
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Network activity underlying various behavioral states in adult Drosophila	\$75,000
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Simons Observatory	\$2,212,859
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Coarse-graining bacterial metabolic network from molecules to growth physiology	\$119,811
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Learning how living systems navigate turbulent environments	\$100,000
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	A gene-driven systems approach to identifying autism pathology	\$749,918
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Linking circuit dynamics and behavior in a rat model of autism	\$39,613
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Sexually dimorphic gene-expression and regulation to evaluate ASD sex bias	\$62,500
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	The role of cation/proton exchanger NHE9 in autism	\$62,500
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Development of a blood-based biomarker for autism	\$62,493
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	In vivo approach to screen ASD allele functions in cortical interneurons	\$62,500

The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	The neural substrates of memories and decisions - Core	\$209,724
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Network properties and plasticity in high- and low-gain cortical states - Core	\$139,177
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Delineating the role of Ras/MAPK signaling in 16p11.2 phenotypes	\$250,000
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Brain Imaging and Cell Signaling Insights into the Biology of Autism	\$249,998
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Dynamic encoding of visual stimuli in mouse cortex	\$78,000
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Extending ASD risk locus discovery to the non-coding genome - Core	\$130,003
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Validation of candidate ASD genes by targeted sequencing with molecular inversion probes	\$101,258
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Do VIP interneurons drive abnormal prefrontal circuit function in autism?	\$75,000
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Mechanisms that Connect Autism with Homeostatic Synaptic Plasticity	\$125,000
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Spatiotemporal and cell type convergence to reveal ASD neurobiology	\$137,500
The Regents of the University of California, Santa Barbara	3227 Cheadle Hall Santa Barbara, CA 93106	PC	The Simons Fund for Visiting Scientists at the Kavli Institute of Theoretical Physics	\$500,000
The Regents of the University of California, Santa Barbara	3227 Cheadle Hall Santa Barbara, CA 93106	PC	Evolutionary Fitness Landscapes in the Origin of Life	\$200,000
The Regents of the University of California, Santa Barbara	3227 Cheadle Hall Santa Barbara, CA 93106	PC	Index Theory, Bergman kernel, and Conical Singularity	\$7,000
The Regents of the University of California, Santa Barbara	3227 Cheadle Hall Santa Barbara, CA 93106	PC	Natural Selection in Rapidly Mutating Populations and Mitochondrial Aging	\$128,623
The Regents of the University of California, Santa Barbara	3227 Cheadle Hall Santa Barbara, CA 93106	PC	Growth efficiency in the mesopelagic at Station ALOHA	\$153,328
The Regents of the University of California, Santa Barbara	3227 Cheadle Hall Santa Barbara, CA 93106	PC	The Refugio Oil Spill as a Microbial Laboratory	\$294,021
The Regents of the University of California, Santa Barbara	3227 Cheadle Hall Santa Barbara, CA 93106	PC	It from Qubit: Quantum Fields, Gravity, and Information	\$195,879
The Regents of the University of California, Santa Barbara	3227 Cheadle Hall Santa Barbara, CA 93106	PC	Equipment for RNA and protocell studies	\$151,101
The Regents of the University of California, Santa Barbara	3227 Cheadle Hall Santa Barbara, CA 93106	PC	Special Holonomy in Geometry, Analysis, and Physics	\$67,909
The Regents of the University of California, Santa Cruz	1156 High Street Santa Cruz, CA 95064	PC	Collaboration on the Langlands program for covering groups	\$7,000
The Regents of the University of California, Santa Cruz	1156 High Street Santa Cruz, CA 95064	PC	Theory and application of vertex algebras and vector-valued modular forms	\$7,000
The Regents of the University of California, Santa Cruz	1156 High Street Santa Cruz, CA 95064	PC	Digital PCR Equipment Purchase for Microbial Oceanography	\$152,767
The Regents of the University of Colorado d/b/a University of Colorado at Boulder	3100 Marine Street, Room 481 572 UCB Boulder, CO 80309-0572	PC	Integral points on abelian varieties	\$7,000
The Regents of the University of Colorado d/b/a University of Colorado at Boulder	3100 Marine Street, Room 481 572 UCB Boulder, CO 80309-0572	PC	Self-similarity, Solenoids, and Groups of Baumslag-Solitar Type	\$7,000
The Regents of the University of Colorado d/b/a University of Colorado at Boulder	3100 Marine Street, Room 481 572 UCB Boulder, CO 80309-0572	PC	Simons Investigator in Physics	\$132,000
The Regents of the University of Colorado d/b/a University of Colorado at Boulder	3100 Marine Street, Room 481 572 UCB Boulder, CO 80309-0572	PC	The noncommutative geometry of stratified spaces and groupoids	\$7,000
The Regents of the University of Colorado d/b/a University of Colorado at Boulder	3100 Marine Street, Room 481 572 UCB Boulder, CO 80309-0572	PC	The geometry and combinatorics of good supercharacter theories	\$7,000
The Regents of the University of Michigan	3003 S State Street Ann Arbor, MI 48109-1274	PC	Simons Investigator in Physics	\$132,000
The Regents of the University of Michigan	3003 S State Street Ann Arbor, MI 48109-1274	PC	Collaborative Research Modeling Tumor Angiogenesis and Treatment	\$7,000
The Regents of the University of Michigan	3003 S State Street Ann Arbor, MI 48109-1274	PC	Problems in Statistical Mechanics and Partial Differential Equations	\$7,000
The Regents of the University of Michigan	3003 S State Street Ann Arbor, MI 48109-1274	PC	Simons Collaboration on the Many Electron Problem - Director, Monte Carlo Group	\$266,000
The Regents of the University of Michigan	3003 S State Street Ann Arbor, MI 48109-1274	PC	Canonical Operators and Geometry of Pseudoconvex Domains	\$7,000
The Regents of the University of Michigan	3003 S State Street Ann Arbor, MI 48109-1274	PC	Geometry, topology, analysis of moduli space and locally symmetric space	\$7,000
The Regents of the University of Michigan	3003 S State Street Ann Arbor, MI 48109-1274	PC	Arithmetic and Geometry of Coverings of Curves	\$110,796
The Regents of the University of Michigan	3003 S State Street Ann Arbor, MI 48109-1274	PC	Physics-inspired methods for analyzing and understanding networks	\$134,400

The Regents of the University of Michigan	3003 S State Street Ann Arbor, MI 48109-1274	PC	A somatic mechanism for ASD phenotypic heterogeneity	\$75,000
The Regents of the University of Michigan	3003 S State Street Ann Arbor, MI 48109-1274	PC	Structured Homotopy Theory	\$7,000
The Regents of the University of Michigan	3003 S State Street Ann Arbor, MI 48109-1274	PC	Simons Collaboration on the Many Electron Problem - PI, Cluster Embedding Group	\$27,973
The Regents of the University of New Mexico	1700 Lomas Blvd NE Ste 2200 MSC01 1247 1 University of New Mexico Albuquerque, NM 87131	PC	Extremal Sasakian Geometry	\$7,000
The Regents of the University of New Mexico	1700 Lomas Blvd NE Ste 2200 MSC01 1247 1 University of New Mexico Albuquerque, NM 87131	PC	Geometric Analysis related to Math Physics and sub-Riemannian geometry	\$7,000
The Regents of the University of New Mexico	1700 Lomas Blvd NE Ste 2200 MSC01 1247 1 University of New Mexico Albuquerque, NM 87131	PC	Spectral theory for almost periodic Jacobi and CMV operators	\$7,000
The Regents of the University of New Mexico	1700 Lomas Blvd NE Ste 2200 MSC01 1247 1 University of New Mexico Albuquerque, NM 87131	PC	Arithmetic differential geometry	\$7,000
The Regents of the University of New Mexico	1700 Lomas Blvd NE Ste 2200 MSC01 1247 1 University of New Mexico Albuquerque, NM 87131	PC	Operator algebras and topological insulators	\$7,000
The Research Foundation CUNY - City College	160 Convent Avenue New York, NY 100319101	PC	Collab R on Stochastic Modeling and Analysis of Dynamics on/of Network	\$7,000
The Research Foundation for The State University of New York	Binghamton University Sponsored Programs PO Box 6000 Binghamton, NY 13902-6000	PC	New advances in quickest change-point detection with applications	\$7,000
The Research Foundation for the State University of New York on behalf of SUNY New Paltz	1 Hawk Drive New Paltz, NY 12561-2443	PC	Limit theorems for particle systems	\$7,000
The Research Foundation for the State University of New York on behalf of SUNY New Paltz	1 Hawk Drive New Paltz, NY 12561-2443	PC	Nonlinear flows in porous media modeling, analysis and applications	\$7,000
The Research Foundation of State University of New York on behalf of University at Buffalo (SUNY @ Buffalo)	402 Crofts Hall Buffalo, NY 14260	PC	Asymmetry and Corners in Free Boundary Problems for Crystal Growth	\$7,000
The Research Foundation of SUNY at Binghamton University	PO Box 6000 Binghamton, NY 13902-6000	PC	Algebraic and Asymptotic Properties of Generating Sets of Algebras	\$7,000
The Research Foundation of SUNY at Binghamton University	PO Box 6000 Binghamton, NY 13902-6000	PC	Statistical Methods for High-Dimensional Classification	\$7,000
The Research Foundation of SUNY at Binghamton University	PO Box 6000 Binghamton, NY 13902-6000	PC	Fibered smooth dynamics and dynamical surgery	\$7,000
The Research Foundation of SUNY- SUNY at Stony Brook	The Research Foundation of SUNY Office of Sponsored Programs Stony Brook University Stony Brook, NY 11794-3362	PC	Homological Mirror Symmetry and Applications	\$93,048
The Research Foundation of SUNY- SUNY at Stony Brook	The Research Foundation of SUNY Office of Sponsored Programs Stony Brook University Stony Brook, NY 11794-3362	PC	Geometry, Hodge Theory, and Moduli Spaces	\$79,362
The Research Foundation of SUNY- SUNY at Stony Brook	The Research Foundation of SUNY Office of Sponsored Programs Stony Brook University Stony Brook, NY 11794-3362	PC	On constant scalar curvature Kaehler metrics	\$114,331
The Rockefeller University	1230 York Avenue Box 82 New York, NY 10065	PC	The Rockefeller University Celebrating Science Benefit	\$250,000
The Rockefeller University	1230 York Avenue Box 82 New York, NY 10065	PC	Acquisition, Storage and Inheritance of Information in Dynamical Living Matte	\$155,321
The Rockefeller University	1230 York Avenue Box 82 New York, NY 10065	PC	Simons Society of Fellows - Junior Fellow	\$132,812
The Rockefeller University	1230 York Avenue Box 82 New York, NY 10065	PC	Simons Society of Fellows - Junior Fellow	\$132,812
The Rockefeller University	1230 York Avenue Box 82 New York, NY 10065	PC	Simons Society of Fellows - Junior Fellow	\$130,316
The Rockefeller University	1230 York Avenue Box 82 New York, NY 10065	PC	Institute for Advanced Study (IAS)/Rockefeller University Joint Initiative in Qualitative Biology - Institutional Support Pt II	\$685,000

The Rockefeller University	1230 York Avenue Box 82 New York, NY 10065	PC	Acquisition, Storage and Inheritance of Information in Dynamical Living Mat	\$157,235
The Rockefeller University-Office of Development	1230 York Avenue Box 82 New York, NY 10065	PC	Women In Science Initiative	\$100,000
The Rockefeller University-Office of Development	1230 York Avenue Box 82 New York, NY 10065	PC	Top-down dynamics in autism	\$210,000
The Rockefeller University-Office of Development	1230 York Avenue Box 82 New York, NY 10065	PC	Circuit Mechanisms of Social Cognitive Computations	\$250,000
The Scripps Research Institute	10550 North Torrey Pines Road La Jolla, CA 92037	PC	Self-Sustained Evolution of RNA	\$400,000
The Scripps Research Institute	10550 North Torrey Pines Road La Jolla, CA 92037	PC	Prebiotic Chemistry and Origins of Biological Homochirality	\$400,000
The Scripps Research Institute	10550 North Torrey Pines Road La Jolla, CA 92037	PC	An Alternate Pathway to RNA Building Blocks From the Nucleobase Perspective	\$174,684
The Scripps Research Institute	10550 North Torrey Pines Road La Jolla, CA 92037	PC	SCOL Equipment Award for Microplate Reader	\$35,817
The Story Collider	125 Court Street, #5SQ Brooklyn, NY 11201	PC	Story Collider Operational Costs	\$75,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Variation in Individuals Project (VIP) Statistical Core Site	\$28,881
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Investigator in Physics	\$132,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Elucidating pathogenic mutations disrupting RNA regulation in autism	\$225,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Identification and analysis of functional networks perturbed in autism	\$250,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Senior Fellow	\$30,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Computational principles of mechanisms underlying cognitive functions	\$300,000

The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Spatiotemporal structure of neural population dynamics in the motor system	\$200,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Investigator in Mathematics	\$132,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	CII Autism Program Maternal and child infection and immunity in ASD	\$558,241
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Neuronal translation in Tsc2+/- and Fmr1-/y mutant ASD mouse models	\$124,999
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Dynamics of Neural Coordination Across Hemispheres	\$78,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Senior Fellow	\$30,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Math+X Investigator	\$300,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Flexible routing of information through specialized networks in the brain	\$75,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Senior Fellow	\$60,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$124,901
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405

The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$121,405
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Investigator in Physics	\$66,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Cracking the glass problem	\$72,285
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Senior Fellow	\$30,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Collaboration on Algorithms and Geometry - PI	\$80,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Employee Matching	\$400
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Analyzing a complex motor act at the mesoscopic scale - Project 1	\$150,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Extending ASD risk locus discovery to the non-coding genome - Project 1	\$59,997
The Trustees of The Smith College (Smith College)	Smith College Controller's Office College Hall 204 Northampton, MA 01063	PC	Reconfiguration in graph theory and combinatorics of symmetric spaces	\$7,000
The Trustees of The Smith College (Smith College)	Smith College Controller's Office College Hall 204 Northampton, MA 01063	PC	Mathematical Modeling of Actin Based Motility in Cancer Cells	\$7,000
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Simons Chair in Probability and Evolutionary Theory	\$510,000
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Simons Investigator in Physics	\$130,394
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Simons Investigator in Physics	\$132,000

The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Simons Investigator in Computer Science	\$132,000
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Safety, Efficacy and Basis of Oxytocin and Brain Stimulation Therapy in ASD	\$261,261
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Simons Collaboration on Algorithms and Geometry - PI	\$80,000
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Uncovering the impact of 16p11.2del on neurons mediating motivated behavior	\$249,629
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Homological Mirror Symmetry and Applications	\$311,341
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	A Bridge Between TCS and Formal Verification	\$24,000
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Single-trial visual familiarity memory acquisition	\$270,807
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	It from Qubit: Quantum Fields, Gravity, and Information	\$110,000
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Homological Mirror Symmetry and Applications	\$278,998
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Obstructions to Local-Global Principles for Linear Algebraic Groups	\$132,000
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Time reversals of deterministic evolutions with random initial conditions	\$132,000
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Adaptive Molecular Sensing in The Olfactory and Immune Systems	\$95,745
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	SFARI Undergraduate Summer Research Program	\$20,000
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Analyses of the SFARI genotype and phenotype data and their associations: In support of research at the Simons Foundation	\$63,547
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Cracking the glass problem	\$60,144
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Employee Matching	\$1,000
The University of Akron	302 Buchtel Common Akron, OH 44325-2102	PC	Potential Role of Minerals in Protocell Evolution	\$246,897
The University of Akron	302 Buchtel Common Akron, OH 44325-2102	PC	Reaction-diffusion systems and their applications	\$7,000
The University of Akron	302 Buchtel Common Akron, OH 44325-2102	PC	Regularity for solutions to some nonlinear elliptic and parabolic equations	\$7,000
The University of Alabama	Box 870104 Tuscaloosa, AL 35487-0104	PC	Weighted estimates in harmonic analysis and PDE	\$7,000
The University of Alabama at Birmingham	Office of Sponsored Programs 1720 2nd Avenue South, AB 1170 Birmingham, AL 35294-0111	PC	Nonlinear PDEs and Applications in Continuum Mechanics	\$7,000
The University of Bath Foundation Inc	c/o Chapel & York Ltd 1000 N West Street Wilmington, DE 19801	PC	Special Holonomy in Geometry, Analysis, and Physics	\$38,438
The University of California, Irvine	University of California Irvine 5171 California Avenue Suite 150 Irvine, CA 92697	PC	Quantization of Sheaves	\$7,000
The University of Cambridge	Research Services Division 16 Mill Lane Cambridge, CB2 1SB	NC	Search for Planets Eclipsing Ultra-cool Stars	\$387,646
The University of Chicago	5801 South Ellis Avenue Chicago, IL 60637	PC	Simons Investigator in Physics	\$132,000
The University of Chicago	5801 South Ellis Avenue Chicago, IL 60637	PC	Simons Investigator in Mathematics	\$132,000

The University of Chicago	5801 South Ellis Avenue Chicago, IL 60637	PC	Simons Investigator in Mathematics	\$132,000
The University of Chicago	5801 South Ellis Avenue Chicago, IL 60637	PC	Cracking the glass problem	\$321,707
The University of Chicago	5801 South Ellis Avenue Chicago, IL 60637	PC	Jeff Harvey Fellow Application	\$146,653
The University of Chicago	5801 South Ellis Avenue Chicago, IL 60637	PC	Forging the Missing Link A Protein-Level View of Marine Microbial Ecology	\$180,000
The University of Chicago	5801 South Ellis Avenue Chicago, IL 60637	PC	Finite p-groups and fusion systems	\$7,000
The University of Chicago	5801 South Ellis Avenue Chicago, IL 60637	PC	Family Math Fluency Conference	\$10,000
The University of Georgia Research Foundation, Inc	200 D W Brooks Drive 617 Boyd GSRC Athens, GA 30602-5016	PC	Uniformization via combinatorial harmonic maps	\$7,000
The University of Iowa	Office of the Vice President for Research Division of Sponsored Programs 2 Gilmore Hall Iowa City, IA 52242	PC	Nonlinear Schrodinger equations at critical nonlinearity	\$7,000
The University of Iowa	Office of the Vice President for Research Division of Sponsored Programs 2 Gilmore Hall Iowa City, IA 52242	PC	High Dimensional Geometry in Data Analysis and Signal Processing	\$7,000
The University of Iowa	Office of the Vice President for Research Division of Sponsored Programs 2 Gilmore Hall Iowa City, IA 52242	PC	A geometric study of singular manifolds	\$7,000
The University of Iowa	Office of the Vice President for Research Division of Sponsored Programs 2 Gilmore Hall Iowa City, IA 52242	PC	Applications of open book foliations	\$7,000
The University of Kansas Center for Research, Inc	2385 Irving Hill Road Lawrence, KS 66045-7568	PC	Combinatorics of Cell Complexes	\$7,000
The University of Montana	Office of Research & Sponsored Programs 32 Campus Drive, 4104 Missoula, MT 59812-4104	PC	Strengthening Mathematical Collaboration in Big Sky Country	\$7,000
The University of North Carolina at Chapel Hill	Office of Sponsored Research 104 Airport Drive, Suite 2200 Campus Box 1350 Chapel Hill, NC 27599	PC	Correcting excitatory-inhibitory imbalance in autism	\$112,500
The University of North Carolina at Chapel Hill	Office of Sponsored Research 104 Airport Drive, Suite 2200 Campus Box 1350 Chapel Hill, NC 27599	PC	Carolina SPARK Carolina Site for the SFARI National Autism Cohort	\$149,999
The University of North Carolina at Chapel Hill	Office of Sponsored Research 104 Airport Drive, Suite 2200 Campus Box 1350 Chapel Hill, NC 27599	PC	Identification of shared phenotypes with 3 high-confidence autism models	\$100,000
The University of North Carolina at Chapel Hill	Office of Sponsored Research 104 Airport Drive, Suite 2200 Campus Box 1350 Chapel Hill, NC 27599	PC	SFARI Summer Undergraduate Research at UNC	\$19,980
The University of North Carolina at Chapel Hill	Office of Sponsored Research 104 Airport Drive, Suite 2200 Campus Box 1350 Chapel Hill, NC 27599	PC	Population dynamics across pairs of cortical areas in learning and behavior - Project 1	\$160,000
The University of North Carolina at Greensboro	Office of Sponsored Programs 1111 Spring Garden Street 2702 MHRA Building Greensboro, NC 27412-5013	PC	Game-theoretical models in biology	\$7,000
The University of North Carolina at Greensboro	Office of Sponsored Programs 1111 Spring Garden Street 2702 MHRA Building Greensboro, NC 27412-5013	PC	Robust Estimation and Signal Approximation for High-dimensional Data	\$7,000
The University of North Carolina at Greensboro	Office of Sponsored Programs 1111 Spring Garden Street 2702 MHRA Building Greensboro, NC 27412-5013	PC	Collaboration in Combinatorics	\$7,000

The University of Queensland	Cumbræ Stewart (Building 72) The University of Queensland Brisbane, QLD, 4072	NC	Functional and behavioral analysis of zebrafish ASD models	\$74,975
The University of Sydney	Research Office Level 6 Jane Foss Russell Building (G02) The University of Sydney Sydney, 2006	NC	Evaluation of a melanocortin agonist to improve social cognition in autism	\$139,606
The University of Tennessee	1534 White Avenue Knoxville, TN 37996-1529	PC	Random walks in random media	\$7,000
The University of Tennessee	1534 White Avenue Knoxville, TN 37996-1529	PC	Large deviations for stochastic systems and applications	\$7,000
The University of Tennessee	1534 White Avenue Knoxville, TN 37996-1529	PC	Levy systems and non-Gaussian chaos	\$7,000
The University of Tennessee	1534 White Avenue Knoxville, TN 37996-1529	PC	The role of uncultured microbes in the Arctic marine sediment carbon cycle	\$180,000
The University of Texas at Austin	Office of Sponsored Projects The University of Texas at Austin 101 East 27th Street, Suite 5 300 Austin, TX 78712-1532	PC	Information Theory & Network Science: Modeling Multiscale Complex phenomena	\$510,000
The University of Texas at Austin	Office of Sponsored Projects The University of Texas at Austin 101 East 27th Street, Suite 5 300 Austin, TX 78712-1532	PC	Local-Global principles in Arithmetic Geometry	\$7,000
The University of Texas at Austin	Office of Sponsored Projects The University of Texas at Austin 101 East 27th Street, Suite 5 300 Austin, TX 78712-1532	PC	Neural coding and dynamics for short-term memory	\$220,000
The University of Texas at Austin	Office of Sponsored Projects The University of Texas at Austin 101 East 27th Street, Suite 5 300 Austin, TX 78712-1532	PC	Simons Graduate Fellowship	\$24,000
The University of Texas at Austin	Office of Sponsored Projects The University of Texas at Austin 101 East 27th Street, Suite 5 300 Austin, TX 78712-1532	PC	Theta functions for log Calabi-Yau manifolds	\$131,975
The University of Texas at Austin	Office of Sponsored Projects The University of Texas at Austin 101 East 27th Street, Suite 5 300 Austin, TX 78712-1532	PC	Quantum Teichmüller Theory and Holomorphic Anomalies	\$112,051
The University of Texas at Austin	Office of Sponsored Projects The University of Texas at Austin 101 East 27th Street, Suite 5 300 Austin, TX 78712-1532	PC	Simons Investigator in Physics	\$66,000
The University of Texas at Austin	Office of Sponsored Projects The University of Texas at Austin 101 East 27th Street, Suite 5 300 Austin, TX 78712-1532	PC	Simons Investigator in Computer Science	\$66,000
The University of Texas at Austin	Office of Sponsored Projects The University of Texas at Austin 101 East 27th Street, Suite 5 300 Austin, TX 78712-1532	PC	Kac-Moody Groups over Rings	\$7,000
The University of Texas at Dallas	800 West Campbell Road, AD15 Richardson, TX 75080	PC	Some Conjectures about the Colored Jones Polynomial	\$7,000
The University of Texas at Dallas	800 West Campbell Road, AD15 Richardson, TX 75080	PC	Nonparametric Inference for Random Networks and Graphs	\$7,000
The University of Texas at San Antonio	One UTSA Circle San Antonio, TX 78249	PC	Non-Commutative Functions, Random Matrices and Free Probability	\$7,000
The University of York	Heslington Hall Heslington York, YO10 5DD	NC	Measuring the size of face regions in female and males	\$58,035
The Washington University	1 Brookings Drive Campus Box 1054 276 North Skinker Building, Ste 220 St. Louis, MO 63130-4899	PC	Geometry of Moduli Spaces of Rational Curves	\$7,000
Towson University	8000 York Road Towson, MD 21252	PC	Multivariate Polynomial Splines	\$7,000
Trevor Day School	11 East 89 Street New York, NY 10128-0602	PC	Employee Matching	\$100
Trillium Health	Trillium Health Attn: Development Department 259 Monroe Avenue Rochester, NY 14607	PC	Employee Matching	\$100

Trustees of Boston College	Office for Sponsored Programs Boston College 140 Commonwealth Avenue Chestnut Hill, MA 02467	PC	Brands and Homological Link Invariants	\$103,206
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	Equivariant Topological Field Theories in Singularity and K-Theories	\$7,000
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	Simons Investigator in the Mathematical Modeling of Living Systems	\$66,000
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	Hall algebras, combinatorial Hopf algebras, and algebraic geometry over F1	\$7,000
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	Developing Expressive Language Outcome Measures for ASD Clinical Trials	\$124,199
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	Slopes of modular forms and the ghost conjecture	\$98,365
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	Simons Investigator in MMLS	\$66,000
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	What constrains microbial diversity? Deriving new ecological principles for the microbial world	\$30,000
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	Simons Collaboration on the Non-perturbative Bootstrap	\$179,765
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	The neural substrates of memories and decisions - Project 1	\$90,595
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	Simons Investigator in the Mathematical Modeling of Living Systems	\$66,000
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	What constrains microbial diversity? Deriving new ecological principles for the microbial world	\$30,000
Trustees of Columbia University in the City of New York Morningside	Sponsored Projects Administration 615 West 131 St, Room 254 Mail Code 8725 New York, NY 10027	PC	The Log-Concavity Conjecture for Genus Polynomials of Graphs	\$7,000
Trustees of Columbia University in the City of New York Morningside	Sponsored Projects Administration 615 West 131 St, Room 254 Mail Code 8725 New York, NY 10027	PC	Black Hole Mergers in Gas Disks A Solution to the Final Parsec Problem?	\$136,537
Trustees of Columbia University in the City of New York Morningside	Sponsored Projects Administration 615 West 131 St, Room 254 Mail Code 8725 New York, NY 10027	PC	Discovering Latent States of Neural Activity and Behavior	\$75,000
Trustees of Dartmouth College	11 Rope Ferry Road, #6210 Hanover, NH 03755-1404	PC	Employee matching	\$200
Trustees of Dartmouth College	11 Rope Ferry Road, #6210 Hanover, NH 03755-1404	PC	Causality and Legendrian Linking	\$7,000
Trustees of Dartmouth College	11 Rope Ferry Road, #6210 Hanover, NH 03755-1404	PC	Noncommutative Dynamical Systems	\$7,000
Trustees of Dartmouth College	11 Rope Ferry Road, #6210 Hanover, NH 03755-1404	PC	Patterns in permutations and dynamical systems	\$7,000
Trustees of Dartmouth College	11 Rope Ferry Road, #6210 Hanover, NH 03755-1404	PC	Problems in Inverse Spectral Geometry	\$7,000
Trustees of Dartmouth College	11 Rope Ferry Road, #6210 Hanover, NH 03755-1404	PC	Simons Investigator in the Mathematical Modeling of Living Systems	\$66,000
Trustees of Dartmouth College	11 Rope Ferry Road, #6210 Hanover, NH 03755-1404	PC	Simons Investigator in the Mathematical Modeling of Living Systems	\$66,000
Trustees of Davidson College	Office of Grants and Contracts Box 7149 Davidson, NC 28035	PC	Collaborations in Number Theory, Analysis and Combinatorics	\$7,000
Trustees of The University of Pennsylvania	Office of Research Services 3451 Walnut Street, Room P-221 Philadelphia, PA 19104	PC	Studies in Topological Phonons	\$132,000
Tulane Educational Fund	c/o Corporate and Foundation Relations 1555 Poydras Street, Suite 1000 New Orleans, LA 70112	PC	Analysis of Nonlinear PDE Models in Fluid Dynamics and Biosciences	\$7,000
Two Turtle Productions, LLC	19 El Sereno Ct San Francisco, CA 94127	PC	The Diabetes Film Series Project	\$10,000
UCSF Foundation	220 Montgomery Street, 5th Floor San Francisco, CA 94104	PC	ASAPbio	\$97,699
UIC	840 S Wood St , Suite 518-E CSB Dept of Surgery M/C 958 Chicago, IL 60612	PC	Simons Simplex Collection Support Grant	\$8,513
Union College	Union College Feigenbaum Hall 807 Union Street Schenectady, NY 12308	PC	Special metrics in Kaehler and Sasakı Geometry	\$7,000
United States Fund for UNICEF	125 Maiden Lane New York, NY 10038	PC	Employee Matching	\$550

United States Naval Academy	589 McNair Rd - Stop 10M Annapolis, MD 21402	PC	Derivations, rational homotopy, and error correcting codes of arrangements	\$6,000
United Way of Southeast Louisiana	2515 Canal Street New Orleans, LA 70119	PC	Employee Matching	\$100
Universidade do Porto	Reitoria da Universidade do Porto Praça Gomes Teixeira Porto, 4099-002	NC	Simons Collaboration on the Non-perturbative Bootstrap	\$57,739
Universidade Estadual Paulista "Julio de Mesquita Filho"	R Dr Bento Teobaldo Ferraz 271 - Bloco II Bairro Barra-Funda 01140-070 - São Paulo SP São Paulo, 01140070	NC	Sao Paulo State Research Funding Agency Fellowship	\$60,000
Universite Cheikh Anta Diop de Dakar, Senegal	B P 16889 Dakar-Fann, 16889	NC	Non-Linear Analysis, Geometry and Application Project	\$80,000
Universite des Sciences et Techniques de Masuku	BP 943 Franceville Franceville, BP 943	NC	Develop the Pole of Research in Mathematics and their Applications in Information Security in Sub-Saharan Africa	\$80,000
University College London	Research Services University College London Gower Street London, WC1E 6BT	NC	Systems Chemistry Investigating the Chemical Origins of Life	\$550,003
University College London	Research Services University College London Gower Street London, WC1E 6BT	NC	The latent dynamical structure of mental activity	\$300,000
University College London	Research Services University College London Gower Street London, WC1E 6BT	NC	Global brain states and local cortical processing	\$468,895
University College London	Research Services University College London Gower Street London, WC1E 6BT	NC	It from Qubit Quantum Fields, Gravity, and Information	\$110,000
University Enterprises, Inc on behalf of CSU Sacramento	6000 J Street Sacramento, CA 95819-6111	PC	Craig Timmons - Collaboration Grant for Mathematicians	\$7,000
University NOW Day Nursery	171 Broadmead Princeton, NY 08540	PC	Employee Matching	\$1,000
University of Arkansas	210 Administration Building Fayetteville, AR 72701	PC	Topics in 3-manifold topology	\$7,000
University of Arkansas	210 Administration Building Fayetteville, AR 72701	PC	Geometric Aspects of Infinite Groups	\$7,000
University of Arkansas	210 Administration Building Fayetteville, AR 72701	PC	The Genomic Basis of Microbial Adaptation to New and Changing Environments	\$180,000
University of British Columbia	#102-6190 Agronomy Road Vancouver, British Columbia V6T 1Z3	NC	A multi-platform approach to the functional assessment of ASD gene variants	\$120,000
University of British Columbia	#102-6190 Agronomy Road Vancouver, British Columbia V6T 1Z3	NC	Simons Investigator in Physics	\$66,000
University of California Berkeley	176 Stanley Hall QB3, 508-B Berkeley, CA 94720-3220	PC	Simons Investigator in Mathematics	\$132,000
University of California Berkeley Foundation	University Relations University of California Berkeley 2080 Addison Street #4200 Berkeley, CA 94720-4200	PC	Eugene D Commins Presidential Chair in Experimental Physics	\$167,000
University of Cape Town	Bremner Building Lover's Walk Rondebosch Cape Town, 7700	NC	IBRO-SIMONS Computational Neuroscience Imbizo (ISI-CNI)	\$30,000
University of Cape Town	Bremner Building Lover's Walk Rondebosch Cape Town, 7700	NC	IBRO-SIMONS Computational Neuroscience Imbizo (ISI-CNI) SPLIT	\$30,000
University of Central Florida	Office of Research & Commercialization 12201 Research Parkway, Suite 501 Orlando, FL 32826	PC	Simons Collaboration Grant Proposal	\$7,000
University of Central Florida	Office of Research & Commercialization 12201 Research Parkway, Suite 501 Orlando, FL 32826	PC	Mathematical Problems in Spatial Ecology	\$7,000

University of Central Florida	Office of Research & Commercialization 12201 Research Parkway, Suite 501 Orlando, FL 32826	PC	Mathematical Investigation of Infectious Disease Models	\$7,000
University of Cincinnati	51 Goodman Drive P O Box 210222 Cincinnati, OH 45221-0222	PC	Problems in Operator Theory on Traces, Ideals, Commutators and Majorization	\$7,000
University of Cincinnati	51 Goodman Drive P O Box 210222 Cincinnati, OH 45221-0222	PC	Finite sums of projections	\$7,000
University of Cincinnati	51 Goodman Drive P O Box 210222 Cincinnati, OH 45221-0222	PC	Bayesian Analysis and its Applications	\$7,000
University of Cincinnati	51 Goodman Drive P O Box 210222 Cincinnati, OH 45221-0222	PC	Dispersive Estimates in Continuous and Discrete Media	\$7,000
University of Cincinnati	51 Goodman Drive P O Box 210222 Cincinnati, OH 45221-0222	PC	Structure of Operator Algebras	\$7,000
University of Cincinnati	51 Goodman Drive P O Box 210222 Cincinnati, OH 45221-0222	PC	Statistical Methods for Distributed Massive Spatial/Spatio-temporal Data	\$7,000
University of Cincinnati	51 Goodman Drive P O Box 210222 Cincinnati, OH 45221-0222	PC	Bellman functions, Monge-Ampere equations, and sharp integral estimates	\$7,000
University of Cincinnati	51 Goodman Drive P O Box 210222 Cincinnati, OH 45221-0222	PC	Calculus of Variations, Quasiregular Analysis and Differential Inclusions	\$7,000
University of Cincinnati	51 Goodman Drive P O Box 210222 Cincinnati, OH 45221-0222	PC	Models for the transmission and dispersal of vector-borne diseases	\$7,000
University of Colorado Denver, AMC and DC	Grants and Contract Mail Stop F428 Anschutz Medical Campus Building 500 13001 E 17th Place, Rm W1124 Aurora, CO 80045	PC	Dosage effects of DUF1220 gene subtype CON1 in autism	\$62,500
University of Colorado Denver, AMC and DC	Grants and Contract Mail Stop F428 Anschutz Medical Campus Building 500 13001 E 17th Place, Rm W1124 Aurora, CO 80045	PC	Graph Theory Problems Related to Measuring Closeness to Planarity	\$7,000
University of Colorado Denver, AMC and DC	Grants and Contract Mail Stop F428 Anschutz Medical Campus Building 500 13001 E 17th Place, Rm W1124 Aurora, CO 80045	PC	Collaboration in Computational Combinatorics	\$15,560
University of Colorado Denver, AMC and DC	Grants and Contract Mail Stop F428 Anschutz Medical Campus Building 500 13001 E 17th Place, Rm W1124 Aurora, CO 80045	PC	Collaborations in Evolutionary Population Dynamics	\$7,000
University of Colorado Denver, AMC and DC	Grants and Contract Mail Stop F428 Anschutz Medical Campus Building 500 13001 E 17th Place, Rm W1124 Aurora, CO 80045	PC	Colorado Clinical Autism Network Site (C-CAN)	\$117,714
University of Colorado Denver, AMC and DC	Grants and Contract Mail Stop F428 Anschutz Medical Campus Building 500 13001 E 17th Place, Rm W1124 Aurora, CO 80045	PC	Collaborative Research in Extremal Graph Theory	\$7,000
University of Connecticut	438 Whitney Road Ext Unit 1133 Storrs, CT 06269-1133	PC	Analysis of Markov Processes	\$7,000
University of Connecticut	438 Whitney Road Ext Unit 1133 Storrs, CT 06269-1133	PC	Topics on Hyperbolic Kac-Moody Algebras and Groups	\$7,000

University of Connecticut	438 Whitney Road Ext Unit 1133 Storrs, CT 06269-1133	PC	Stochastic analysis, geometry and representation theory	\$122,378
University of Delaware	Research Office 210 Hulliher Hall Newark, DE 19716	PC	Biomechanical Models for Intimal Thickening and Vulnerable Plaque	\$7,000
University of Delaware	Research Office 210 Hulliher Hall Newark, DE 19716	PC	Algebraic constructions of dense graphs with forbidden cycle lengths	\$7,000
University of Durham	Durham University Palatine Centre Stockton Road Durham, DH1 3LE	NC	Simons Collaboration on the Non-perturbative Bootstrap	\$50,712
University of Florida	219 Grinter Hall Gainesville, FL 32611	PC	Problems in Number Theory and Combinatorics related to q-series	\$7,000
University of Florida	219 Grinter Hall Gainesville, FL 32611	PC	Iterated Function Systems	\$7,000
University of Florida	219 Grinter Hall Gainesville, FL 32611	PC	Analytic, Combinatorial and Computational Study of Partitions	\$7,000
University of Geneva	24, rue General Dufour Geneva, 1204	NC	Neural encoding and decoding of policy uncertainty in the frontal cortex - Project 1	\$65,520
University of Georgia	617 Boyd GSRC Athens, GA 30602-7411	PC	Arithmetic over a variable ground field	\$7,000
University of Georgia Research Foundation Inc	Sponsored Programs 200 D W Brooks Drive 617 Boyd Graduate Studies Research Center Athens, GA 30602	PC	Parameterized Morse theory in low-dimensional topology	\$7,000
University of Georgia Research Foundation, Inc	310 East Campus Rd Tucker Hall Rm 409 Athens, GA 30602-1589	PC	Mathematics of Stock Trading	\$7,000
University of Georgia Research Foundation, Inc	310 East Campus Rd Tucker Hall Rm 409 Athens, GA 30602-1589	PC	Arithmetic on Algebraic Varieties	\$7,000
University of Georgia Research Foundation, Inc	310 East Campus Rd Tucker Hall Rm 409 Athens, GA 30602-1589	PC	Topics in Arithmetic Combinatorics	\$7,000
University of Georgia Research Foundation, Inc	310 East Campus Rd Tucker Hall Rm 409 Athens, GA 30602-1589	PC	Open books and invariants in contact topology	\$7,000
University of Georgia Research Foundation, Inc	310 East Campus Rd Tucker Hall Rm 409 Athens, GA 30602-1589	PC	Rumely Simons Collaboration Grant	\$7,000
University of Georgia Research Foundation, Inc	310 East Campus Rd Tucker Hall Rm 409 Athens, GA 30602-1589	PC	Modular representations of finite groups	\$7,000
University of Hawaii	2440 Campus Road Box 368 Honolulu, HI 96822	PC	Coarse geometry and applications to operator K-theory	\$7,000
University of Hawaii	2440 Campus Road Box 368 Honolulu, HI 96822	PC	Automatic complexity	\$7,000
University of Hawaii	2440 Campus Road Box 368 Honolulu, HI 96822	PC	Quadratic Algebras and Orthogonal Polynomials	\$7,000
University of Hawaii	2440 Campus Road Box 368 Honolulu, HI 96822	PC	Simons Collaboration on Ocean Processes and Ecology	\$8,141,600
University of Hawaii	2440 Campus Road Box 368 Honolulu, HI 96822	PC	Geometric Optimal Control and Its Application	\$7,000
University of Hawaii	2440 Campus Road Box 368 Honolulu, HI 96822	PC	Michelle Manes	\$7,000
University of Hawaii	2440 Campus Road Box 368 Honolulu, HI 96822	PC	Iwasawa theory and arithmetic statistics	\$7,000
University of Hawaii Hilo	200 W Kawili St Hilo, HI 96720-4091	PC	Classification of C^* -algebras and applications	\$7,000
University of Houston	Ezekiel W Cullen 4302 University Drive, Room 316 Houston, TX 77204-2015	PC	Properties of dynamical systems with some hyperbolicity	\$7,000
University of Houston	Ezekiel W Cullen 4302 University Drive, Room 316 Houston, TX 77204-2015	PC	Sparse multiscale representations and applications to multidimensional data	\$7,000

University of Idaho	875 Perimeter Drive, MS 3020 Moscow, ID 83844-3020	PC	Persistence of Random Processes	\$7,000
University of Idaho	875 Perimeter Drive, MS 3020 Moscow, ID 83844-3020	PC	Collaborations around Schubert Geometry	\$7,000
University of Illinois Urbana Champaign	2001 S Lincoln Avenue Urbana, IL 61802	PC	Simons Investigator in MMLS	\$66,000
University of Kansas Center for Research, Inc	Youngberg Hall 2385 Irving Hill Road Lawrence, KS 66045	PC	Recent Progress on Gromov-Witten and Donaldson-Thomas theory	\$7,000
University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Equivariance in Homotopy Theory	\$7,000
University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Collaborations in Commutative Algebra	\$7,000
University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Traces in higher categories, stable homotopy theory, and dynamics	\$7,000
University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Inverse Scattering in Two Dimensions	\$7,000
University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Investigations in Combinatorial Mathematics	\$7,000
University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Collaboration in Algebraic Coding Theory	\$7,000
University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Harmonic analysis and partial differential equations	\$7,000
University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Whitney Stratifications, Partitions and Permutations	\$7,000
University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Chromatic symmetric functions	\$7,000
University of Maine System acting through the University of Maine	5717 Corbett Hall University of Maine Orono, ME 04469-5717	PC	Automorphic forms and the trace formula	\$7,000
University of Maryland Baltimore County	1000 Hilltop Circle Baltimore, MD 21250	PC	UMBC Collaboration for Mathematics	\$7,000
University of Maryland, Baltimore	620 W Lexington Street 4th Floor Baltimore, MD 21201-1508	PC	Exploring Sex Differences in ASD via the NRXN1 KO Rat	\$75,000
University of Maryland-College Park	3112 Lee Building 7809 Regents Drive College Park, MD 20742-5141	PC	Simons Investigator in Physics	\$132,000
University of Maryland-College Park	3112 Lee Building 7809 Regents Drive College Park, MD 20742-5141	PC	Topics in harmonic analysis	\$7,000
University of Maryland-College Park	3112 Lee Building 7809 Regents Drive College Park, MD 20742-5141	PC	Shimura varieties, geometric Satake, and representation theory	\$132,000
University of Maryland-College Park	3112 Lee Building 7809 Regents Drive College Park, MD 20742-5141	PC	Mathematical Modeling of Cancer Dynamics	\$7,000
University of Massachusetts Amherst	100 Venture Way Suite 201 Hadley, MA 01035-9450	PC	Holomorphic curves and contact geometry	\$7,000
University of Massachusetts Amherst	100 Venture Way Suite 201 Hadley, MA 01035-9450	PC	Simons Collaboration on the Many Electron Problem - PI, Monte Carlo Group	\$167,000
University of Massachusetts Amherst	100 Venture Way Suite 201 Hadley, MA 01035-9450	PC	Stochastic perspectives of billiard dynamics	\$7,861
University of Massachusetts Amherst	100 Venture Way Suite 201 Hadley, MA 01035-9450	PC	Algebraic cycles /derived categories of hyperkahler and abelian varieties	\$7,000
University of Massachusetts Lowell	One University Avenue Lowell, MA 01854-2827	PC	Robust and fast computational method for electromagnetics	\$7,000
University of Massachusetts Medical School	Office of Research 55 Lake Avenue North Worcester, MA 01655	PC	Defining the Translational Landscape in Mouse Models of Autism - Core	\$68,750
University of Massachusetts Medical School	Office of Research 55 Lake Avenue North Worcester, MA 01655	PC	Exploring role of Th17-inducing maternal intestinal bacteria in ASD - Core	\$90,926
University of Massachusetts Medical School	Office of Research 55 Lake Avenue North Worcester, MA 01655	PC	The IL-17 pathway in the rodent model of autism spectrum disorder	\$90,000
University of Miami	1320 S Dixie Highway, suite 650 Coral Gables, FL 33146-2403	PC	Scalar Curvature on Compact Manifolds with Boundary	\$7,000
University of Miami	1320 S Dixie Highway, suite 650 Coral Gables, FL 33146-2403	PC	Rational Catalan Combinatorics	\$7,000
University of Miami	1320 S Dixie Highway, suite 650 Coral Gables, FL 33146-2403	PC	Homological Mirror Symmetry and Applications	\$298,434
University of Miami	1320 S Dixie Highway, suite 650 Coral Gables, FL 33146-2403	PC	University of Miami Clinical Site Network for the National Autism Cohort	\$138,578
University of Miami	1320 S Dixie Highway, suite 650 Coral Gables, FL 33146-2403	PC	Topics in Gauge Theory	\$7,000

University of Mississippi	100 Barr Hall PO Box 1848 University, MS 38677-1848	PC	A New Higher Codimension Analogue of Hochster's Theta Invariant	\$7,000
University of Mississippi Medical Center	2500 North State Street Jackson, MS 39216	PC	Mississippi collaborative autism cohort study (M-CACS)	\$150,000
University of Missouri-Columbia	Office of Sponsored Programs Admin 115 Business Loop 70W, Mizzou North, Room 501 Columbia, MO 65211	PC	Crepant Resolution Conjecture for Hilbert-Chow Morphisms	\$7,000
University of Missouri-Columbia	Office of Sponsored Programs Admin 115 Business Loop 70W, Mizzou North, Room 501 Columbia, MO 65211	PC	Geometric Measure Theory and Partial Differential Equations	\$7,000
University of Missouri-Columbia	Office of Sponsored Programs Admin 115 Business Loop 70W, Mizzou North, Room 501 Columbia, MO 65211	PC	Problems in Fourier Analysis	\$7,000
University of Missouri-Columbia	Office of Sponsored Programs Admin 115 Business Loop 70W, Mizzou North, Room 501 Columbia, MO 65211	PC	Research in Applied Analysis and Dynamical Systems	\$7,000
University of Missouri-Columbia	Office of Sponsored Programs Admin 115 Business Loop 70W, Mizzou North, Room 501 Columbia, MO 65211	PC	Research in automorphic forms and representations	\$7,000
University of New Hampshire	Sponsored Programs Administration Service Building 51 College Road Durham, NH 03824-3585	PC	Problems in Operator Theory	\$7,000
University of North Carolina at Chapel Hill (Chapel Hill, NC)	Office of Sponsored Research 104 Airport Drive, Suite 2200 CB1350 Chapel Hill, NC 27599-1350	PC	Visualizing neural circuits of social sensory processing	\$125,000
University of North Carolina at Chapel Hill (Chapel Hill, NC)	Office of Sponsored Research 104 Airport Drive, Suite 2200 CB1350 Chapel Hill, NC 27599-1350	PC	Topics in holomorphic symplectic and hyperkahler geometry	\$7,000
University of North Carolina at Charlotte	9201 University City Blvd Charlotte, NC 28223-0001	PC	Atomistic-to-Continuum multiscale methods for crystalline nanomaterials	\$7,000
University of North Texas	University of North Texas Office of Grants & Contracts Administration 1155 Union Circle #305250 Denton, TX 76203-5017	PC	Geometric aspects of the representation theory of reductive groups	\$7,000
University of North Texas	University of North Texas Office of Grants & Contracts Administration 1155 Union Circle #305250 Denton, TX 76203-5017	PC	Diophantine Approximation on Fractals	\$7,000
University of North Texas	University of North Texas Office of Grants & Contracts Administration 1155 Union Circle #305250 Denton, TX 76203-5017	PC	Real-analytic automorphic forms and applications	\$7,000
University of North Texas	University of North Texas Office of Grants & Contracts Administration 1155 Union Circle #305250 Denton, TX 76203-5017	PC	Deformations	\$7,000
University of Northern Colorado	501 20th Street Greeley, CO 80639	PC	Collaboration in Probability and Stochastic Analysis 2015	\$7,000
University of Notre Dame	940 Grace Hall Notre Dame, IN 46556-5612	PC	Nonlinear Evolution Equations	\$7,000
University of Notre Dame	940 Grace Hall Notre Dame, IN 46556-5612	PC	Robust optimal control and Jordan-algebraic optimization	\$7,000
University of Notre Dame	940 Grace Hall Notre Dame, IN 46556-5612	PC	Vertex operator superalgebras and their twisted modules	\$7,000
University of Notre Dame	940 Grace Hall Notre Dame, IN 46556-5612	PC	Collaborations on Hilbert functions and related topics	\$7,000

University of Notre Dame	940 Grace Hall Notre Dame, IN 46556-5612	PC	Computability and Definability	\$7,000
University of Notre Dame	940 Grace Hall Notre Dame, IN 46556-5612	PC	Symplectic embeddings and isotopies	\$7,000
University of Notre Dame	940 Grace Hall Notre Dame, IN 46556-5612	PC	Lie theory and geometry	\$7,000
University of Notre Dame	940 Grace Hall Notre Dame, IN 46556-5612	PC	Exploring H-colorings of graphs	\$7,000
University of Oregon	Sponsored Projects Services 5219 University of Oregon Eugene, OR 97403-5219	PC	Collaborating Research in Ricci Flow	\$7,000
University of Oregon	Sponsored Projects Services 5219 University of Oregon Eugene, OR 97403-5219	PC	Random matrices and polynomials with logarithmic weights	\$7,000
University of Oregon	Sponsored Projects Services 5219 University of Oregon Eugene, OR 97403-5219	PC	Rational mapping, Chern-Simons, group cohomology, and geometric cochains	\$7,000
University of Oregon	Sponsored Projects Services 5219 University of Oregon Eugene, OR 97403-5219	PC	Harmonic and functional analysis of wavelet and frame expansions	\$7,000
University of Oregon	Sponsored Projects Services 5219 University of Oregon Eugene, OR 97403-5219	PC	Cracking the glass problem	\$93,203
University of Oregon	Sponsored Projects Services 5219 University of Oregon Eugene, OR 97403-5219	PC	Rebooting the Gut Microbial Ecosystem using Bacterial Dueling	\$60,000
University of Ottawa	550 Cumberland Street, room 030B Ottawa, Ontario K1N 6N5	NC	Simple Aldehydes and Carbohydrates as Prebiotic Catalysts	\$70,500
University of Oxford	University Offices Wellington Square Oxford, OX1 2JD	NC	Validation of a diffusion imaging biomarker of autism	\$129,047
University of Oxford	University Offices Wellington Square Oxford, OX1 2JD	NC	Simons Investigator in Mathematics	\$132,000
University of Pittsburgh	Office of Research University Club 123 University Place Pittsburgh, PA 15213	PC	Attentional modulation of neuronal variability constrains circuit models	\$300,000
University of Pittsburgh	Office of Research University Club 123 University Place Pittsburgh, PA 15213	PC	Mathematical analysis of water waves and some related dispersive models	\$7,000
University of Pittsburgh	Office of Research University Club 123 University Place Pittsburgh, PA 15213	PC	Convex bodies and algebraic geometry	\$82,505
University of Pittsburgh	Office of Research University Club 123 University Place Pittsburgh, PA 15213	PC	n-extended affine Hecke algebras and Lie theory	\$7,000
University of Pittsburgh	Office of Research University Club 123 University Place Pittsburgh, PA 15213	PC	Interactome perturbation by large-scale mutagenesis to find risk variants - Project 1	\$12,449
University of Rochester	518 Hylan Bldg Box 270140 Rochester, NY 14627-0140	PC	p-adic analysis in families of exponential sums	\$7,000
University of Rochester	518 Hylan Bldg Box 270140 Rochester, NY 14627-0140	PC	Regularity Issues for Equations of Mathematical Physics	\$7,000
University of Rochester	518 Hylan Bldg Box 270140 Rochester, NY 14627-0140	PC	Plane partitions with non-homogeneous weights	\$7,000
University of San Diego	5998 Alcala Park San Diego, CA 92110	PC	CEPAL STEM Learning Ecosystems Initiative	\$200,000
University of South Alabama	Research 307 University Blvd AD200 Mobile, AL 36688	PC	Cohomology and extensions for finite groups of Lie type	\$7,000
University of South Alabama	Research 307 University Blvd AD200 Mobile, AL 36688	PC	Collaboration in Knot Theory from a Dynamical Perspective	\$7,000
University of South Alabama	Research 307 University Blvd AD200 Mobile, AL 36688	PC	Knots, groups and dynamical systems	\$7,000
University of South Alabama	Research 307 University Blvd AD200 Mobile, AL 36688	PC	Diagrammatics and higher dimensional knottings	\$7,000

University of South Alabama	Research 307 University Blvd AD200 Mobile, AL 36688	PC	Measurement error models in gene profiling data analysis	\$7,000
University of South Carolina - USC	1600 Hampton Street Suite 414 Columbia, SC 29208-0001	PC	Collaboration Grant for Mathematicians -- Bernard Omolo	\$7,000
University of South Carolina - USC	1600 Hampton Street Suite 414 Columbia, SC 29208-0001	PC	Poset-free Families	\$7,000
University of South Carolina - USC	1600 Hampton Street Suite 414 Columbia, SC 29208-0001	PC	Applications of compactified Jacobians to enumerative geometry	\$7,000
University of South Carolina Research Foundation	901 Sumter Street Suite 501 Columbia, SC 29208	PC	Szyzgies, Rees algebras, and the Weak Lefschetz Property	\$7,000
University of South Florida	3702 Spectrum Blvd , Suite 165 Tampa, FL 33612	PC	Algorithmic Questions of Self-Similar and L-presented group	\$7,000
University of South Florida	3702 Spectrum Blvd , Suite 165 Tampa, FL 33612	PC	Two-Dimensional Coulomb Gas and Random Matrices	\$7,000
University of South Florida	3702 Spectrum Blvd , Suite 165 Tampa, FL 33612	PC	Algorithms in Number Theory, Quantum Information, and Cryptography	\$7,000
University of St Andrews	University of St Andrews Research Funding Office The Gateway North Haugh St Andrews KY16 9AH St Andrews, KY16 9SS	NC	Modeling Atmospheres Warming Archean Earth to Detecting Biosignatures	\$165,000
University of Texas Rio Grande Valley	1201 W University Drive Edinburg, TX 78539-2909	PC	Closed and approximate solutions to equations on wave propagation phenomena	\$7,000
University of Texas Rio Grande Valley	1201 W University Drive Edinburg, TX 78539-2909	PC	Finite W-algebras for Lie superalgebras and Superconformal algebras	\$7,000
University of Trento	Via Calepina 14 Trento, 38122	NC	The origins of Fe-S clusters	\$100,000
University of Utah	75 S 2000 E Rm 111 Salt Lake City, UT 84112	PC	Simons Investigator in Mathematics	\$132,000
University of Utah	75 S 2000 E Rm 111 Salt Lake City, UT 84112	PC	Statistical Mechanics of SLE and Directed Polymers	\$7,000
University of Utah	75 S 2000 E Rm 111 Salt Lake City, UT 84112	PC	Combining WGS from Utah high-risk pedigrees and SSC families	\$249,930
University of Utah	75 S 2000 E Rm 111 Salt Lake City, UT 84112	PC	Coarsening and Texture Development in Polycrystalline Materials	\$7,000
University of Utah	75 S 2000 E Rm 111 Salt Lake City, UT 84112	PC	Topics in Applied Probability	\$7,000
University of Utah	75 S 2000 E Rm 111 Salt Lake City, UT 84112	PC	Moduli Spaces of Stable Complexes in Algebraic Geometry	\$7,000
University of Vermont and State Agricultural College	85 South Prospect Street Sponsored Project Administration 217 Waterman Building Burlington, VT 05405	PC	Rational Catalan combinatorics and quasisymmetric functions	\$7,000
University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Simons Variation in Individuals Project (VIP) Site	\$71,386
University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Geometry and Analysis in Mathematical General Relativity	\$7,000
University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Autism subtypes by gene characterization	\$325,145
University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Neural Dynamics for a Cognitive Map in the Macaque Brain	\$319,606
University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Workshop on the Dynamic Brain	\$4,000
University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Clinical Site Network for the National Autism Cohort	\$150,000
University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Structural Variation and the Genetic Architecture of Autism	\$353,781

University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Mass spectrometry instrumentation for marine microbial metabolomics	\$24,186
University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Random Shapes	\$118,860
University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Model-driven Investigations of Ocean Transition Zones	\$1,230,000
University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Acquisition of sorting flow cytometer	\$509,613
University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Simons Simplex Collection Support Grant	\$10,000
University of Wisconsin-Madison (Board of Regents University of Wisconsin System)	Research & Sponsored Programs 21 North Park Street, Suite 6401 Madison, WI 53715	PC	Collaboration Grants for Mathematicians - Slemrod	\$7,000
University of Wisconsin-Madison (Board of Regents University of Wisconsin System)	Research & Sponsored Programs 21 North Park Street, Suite 6401 Madison, WI 53715	PC	Role of higher-order interactions for stability of microbial communities	\$100,000
University of Wisconsin-Madison (Board of Regents University of Wisconsin System)	Research & Sponsored Programs 21 North Park Street, Suite 6401 Madison, WI 53715	PC	Computability and Randomness	\$7,000
University of Wisconsin-Milwaukee	Office of Sponsored Programs UWM Office of Research P O Box 340 Milwaukee, WI 53201	PC	Collaborations in Optimal Stopping and Control of Stochastic Processes	\$7,000
University of Wisconsin-Milwaukee	Office of Sponsored Programs UWM Office of Research P O Box 340 Milwaukee, WI 53201	PC	Research in Geometric group theory	\$7,000
University of Wisconsin-Milwaukee	Office of Sponsored Programs UWM Office of Research P O Box 340 Milwaukee, WI 53201	PC	Collaboration on Mathematical Biology	\$7,000
University of Wisconsin-Milwaukee	Office of Sponsored Programs UWM Office of Research P O Box 340 Milwaukee, WI 53201	PC	Lie Superalgebras and Enveloping Algebras	\$7,000
University of Wisconsin-Milwaukee	Office of Sponsored Programs UWM Office of Research P O Box 340 Milwaukee, WI 53201	PC	Relatively hyperbolic groups and cube complexes	\$7,000
University of Wisconsin-Milwaukee	Office of Sponsored Programs UWM Office of Research P O Box 340 Milwaukee, WI 53201	PC	Collaborations in Finite Dynamical Systems and Application to Gene Networks	\$7,000
University of Wisconsin-Milwaukee	Office of Sponsored Programs UWM Office of Research P O Box 340 Milwaukee, WI 53201	PC	Collaborations in Geometric Topology and Geometric Group Theory	\$7,000
University of Wisconsin-Stout	712 S Broadway St Menomonie, WI 54751	PC	Cohomology of finite groups of Lie type and algebraic groups	\$7,000
University of Wyoming	Dept 3355 1000 E University Avenue Laramie, WY 82071	PC	Compatible Systems and Big Monodromy	\$7,000
University of Wyoming	Dept 3355 1000 E University Avenue Laramie, WY 82071	PC	Some problems in the classification of C^* -algebras	\$7,000
University of Zurich	Raemistrasse 71 Zurich, 8006	NC	Probing recurrent dynamics in prefrontal cortex	\$300,193
USC/University of Southern California	Department of Contracts and Grants 3720 S Flower Street, 3rd Floor Los Angeles, CA 90089	PC	Simons Investigator in Computer Science	\$132,000
USC/University of Southern California	Department of Contracts and Grants 3720 S Flower Street, 3rd Floor Los Angeles, CA 90089	PC	Collaboration in Categorification and low-dimensional topology	\$130,588

USC/University of Southern California	Department of Contracts and Grants 3720 S Flower Street, 3rd Floor Los Angeles, CA 90089	PC	Implications of Extended Gravitational Thermodynamics	\$136,200
USC/University of Southern California	Department of Contracts and Grants 3720 S Flower Street, 3rd Floor Los Angeles, CA 90089	PC	Applications of Algebraic Combinatorics	\$7,000
USC/University of Southern California	Department of Contracts and Grants 3720 S Flower Street, 3rd Floor Los Angeles, CA 90089	PC	High-Dimensional Sparse Inference with Scalability	\$7,000
USC/University of Southern California	Department of Contracts and Grants 3720 S Flower Street, 3rd Floor Los Angeles, CA 90089	PC	Developing Scalable Measures of Behavior Change for ASD Treatments- Project 3	\$89,786
UT Southwestern Medical Center	5323 Harry Hines Blvd Dallas, TX 75390-9020	PC	Foxp1 orchestration of neuronal function in the striatum	\$73,345
UT Southwestern Medical Center	5323 Harry Hines Blvd Dallas, TX 75390-9020	PC	Defining the Translational Landscape in Mouse Models of Autism - Project 1	\$68,750
Utah State University	1415 Old Main Hill Room 64 Logan, UT 84322-1415	PC	Elliptic Toda systems and periodic Toda flows	\$7,000
Vanderbilt University	Sponsored Programs Administration PMB 407749 2301 Vanderbilt Place Nashville, TN 37240-7749	PC	Mathematical Logic and Foundations of Mathematics	\$7,000
Vanderbilt University	Sponsored Programs Administration PMB 407749 2301 Vanderbilt Place Nashville, TN 37240-7749	PC	Deformation techniques in real enumerative geometry and Kahler geometry	\$7,000
Vanderbilt University	Sponsored Programs Administration PMB 407749 2301 Vanderbilt Place Nashville, TN 37240-7749	PC	Subfactors and Planar Algebras	\$7,000
Vanderbilt University	Sponsored Programs Administration PMB 407749 2301 Vanderbilt Place Nashville, TN 37240-7749	PC	Moving interfaces in fluid flows and phase transitions	\$7,000
Vanderbilt University	Sponsored Programs Administration PMB 407749 2301 Vanderbilt Place Nashville, TN 37240-7749	PC	Graph embeddings, structure and traversability	\$7,000
Vanderbilt University	Sponsored Programs Administration PMB 407749 2301 Vanderbilt Place Nashville, TN 37240-7749	PC	Simons Simplex Collection Support Grant	\$8,701
Vanderbilt University Medical Center	Office of Sponsored Programs 3319 West End Avenue STE 970 Nashville, TN 37203	PC	SPARK Vanderbilt	\$150,000
Vassar College	124 Raymond Avenue Box 657 Poughkeepsie, NY 12604	PC	Topics in Operator Algebras Perturbations, Dynamics, and Bimodules	\$7,000
Vassar College	124 Raymond Avenue Box 657 Poughkeepsie, NY 12604	PC	Simons Collaboration Grant Algebraic Structures in Link Homology	\$7,000
Villa Maria School	161 Sky Meadow Drive Stamford, CT 06903	PC	Employee Matching	\$500
Virginia Commonwealth University	Office of Research, Sponsored Programs PO BOX 980568 Richmond, VA 23298-0568	PC	Graph Pebbling, Extremal Set Theory, and Universal Cycles	\$7,000
Virginia Commonwealth University	Office of Research, Sponsored Programs PO BOX 980568 Richmond, VA 23298-0568	PC	Forcing and the nonstationary ideal	\$7,000
Virginia Commonwealth University	Office of Research, Sponsored Programs PO BOX 980568 Richmond, VA 23298-0568	PC	Characterizations and Analyses of Cortical Neural Network Models	\$7,000

Virginia Commonwealth University	Office of Research, Sponsored Programs PO BOX 980568 Richmond, VA 23298-0568	PC	Controlling infectious disease through collaboration	\$7,000
Virginia Commonwealth University	Office of Research, Sponsored Programs PO BOX 980568 Richmond, VA 23298-0568	PC	Alpha-critical Graphs and Stability Number LPs	\$7,000
Virginia Polytechnic Institute and State University	Office of Sponsored Programs (MC 0170) 300 Turner Street NW, Suite 4200 Blacksburg, VA 24061	PC	Exploring the Combinatorics of Symmetric and Quasisymmetric Functions	\$7,000
Virginia Polytechnic Institute and State University	Office of Sponsored Programs (MC 0170) 300 Turner Street NW, Suite 4200 Blacksburg, VA 24061	PC	Point configurations and multilinear generalized Radon transforms	\$7,000
Virginia Polytechnic Institute and State University	Office of Sponsored Programs (MC 0170) 300 Turner Street NW, Suite 4200 Blacksburg, VA 24061	PC	Modeling the immune responses to viral infections	\$7,000
Virunga Fund, Inc	50 Court Street, Suite 712 Brooklyn, NY 11201	PC	Employee Matching	\$100
Voices Against Brain Cancer Inc	1375 Broadway New York, NY 10018	PC	Employee Matching	\$700
Wake Forest University	Research & Sponsored Programs P O Box 7528 Winston-Salem, NC 27109	PC	Asymptotic Behavior of Solutions to Nonlinear Dispersive Equations	\$7,000
Wake Forest University	Research & Sponsored Programs P O Box 7528 Winston-Salem, NC 27109	PC	van der Waals interactions in DFT Theory and Applications	\$81,463
Washington and Lee University	204 W Washington St Lexington, VA 24450	PC	Geometric and combinatorial configurations	\$7,000
Washington Autism Alliance & Advocacy	16225 NE 87th St Suite A-2 Redmond, WA 98052	PC	SPARK Community Partner Evaluation for Pilot	\$2,500
Washington State University	280 Lighty Pullman, WA 99164-1060	PC	Scaling of forest dynamics from individual to ecosystem level	\$7,000
Washington State University	280 Lighty Pullman, WA 99164-1060	PC	Analysis of infectious diseases and eradication of an invasive species	\$7,000
Washington State University	280 Lighty Pullman, WA 99164-1060	PC	Modeling, wellposedness and control for swimming phenomenon	\$7,000
Washington State University	280 Lighty Pullman, WA 99164-1060	PC	Analytic number theory and automorphic forms	\$7,000
Washington University in St Louis	Campus Box 1054 One Brookings Drive St Louis, MO 631304862	PC	Collaborative research in geometric numerical analysis	\$7,000
Washington University in St Louis	Campus Box 1054 One Brookings Drive St Louis, MO 631304862	PC	Foliations, flows and contact structures	\$7,000
Wave Hill Incorporated	675 West 252nd St Bronx, NY 10471	PC	Employee Matching	\$200
Wayne State University	5057 Woodward, Ste 13202 Detroit, MI 48202	PC	Connective K-theory, Red shift, and stable homotopy of spheres	\$7,000
Wayne State University	5057 Woodward, Ste 13202 Detroit, MI 48202	PC	Algebraic Topology, Manifolds and Statistical Mechanics	\$7,000
Wellesley College	106 Central Street Wellesley, MA 02481	PC	Algebraic topology of knot and link spaces	\$7,000
Wellesley College	106 Central Street Wellesley, MA 02481	PC	Structured families of graphs and order Interval orders and split graphs	\$7,000
Wesleyan University	237 High Street, North College Middletown, CT 06459-3208	PC	Homogeneous Dynamics, Group Actions, and Number Theory	\$7,000
West Virginia University Foundation	One Waterfront Place, 7th Floor PO Box 1650 Morgantown, WV 26507-1650	PC	Hamiltonian systems in spaces of probability measures	\$7,000
Western Michigan University	264W Walwood Hall 1903 West Michigan Ave Kalamazoo, MI 49008-5456	PC	Collaboration Grant 2012	\$7,000
Western Michigan University	264W Walwood Hall 1903 West Michigan Ave Kalamazoo, MI 49008-5456	PC	Probabilistic Combinatorics and Constrained Random Greedy Processes	\$7,000
Western Washington University	Western Washington University 516 High Street Bellingham Washington, WA 98225	PC	Collaboration Grant for Mathematicians	\$7,000
WGBH Educational Foundation	One Guest Street Boston, MA 02135	PC	NOVA Probability and Prediction	\$600,000

Whitehead Institute for Biomedical Research	455 Main Street Cambridge, MA 02142-1479	PC	Mouse-Human Chimeras a Novel Platform to Study Human Disease	\$95,481
WHYY, Inc	4548 Market Street Philadelphia, PA 19139	PC	Employee Matching	\$200
Wichita State University	1845 Fairmount Street Box 007 Wichita, KS 67260-0007	PC	The Topology of the Space of Metrics of Positive Scalar Curvature	\$7,000
Wichita State University	1845 Fairmount Street Box 007 Wichita, KS 67260-0007	PC	Lower curvature bounds and symmetries	\$7,000
Wiki Education Foundation	11A Funston Ave San Francisco, CA 94129	PC	Extending the Impact of the Year of Science	\$480,000
Wikimedia Foundation Inc	149 New Montgomery Street, Floor 6 San Francisco, CA 94105	PC	Employee Matching	\$100
Wikimedia Foundation Inc	149 New Montgomery Street, Floor 6 San Francisco, CA 94105	PC	Employee Matching	\$100
William Marsh Rice University	Office of Sponsored Projects and Research Compliance 6100 S Main MS-16 Houston, TX 77005-1892	PC	Simons Chair in Mathematics and Geoscience at Rice University	\$471,450
William Marsh Rice University	Office of Sponsored Projects and Research Compliance 6100 S Main MS-16 Houston, TX 77005-1892	PC	Combinatorial and Diophantine Properties of Dynamical Systems	\$7,000
WNYC Radio	160 Varick Street, 9th Fl New York, NY 10013	PC	Only Human Podcast	\$500,000
WNYC Radio	160 Varick Street, 9th Fl New York, NY 10013	PC	Employee Matching	\$200
Women & Infants Hospital	101 Dudley Street Providence, RI 02905	PC	Biomarkers of Emotion Regulation, Social Response & Social Attention in ASD	\$124,827
Women & Infants Hospital of Rhode Island	101 Dudley Street Providence, RI 02905	PC	The Rhode Island Consortium for Autism Research and Treatment (RI-CART) - Phase II	\$251,693
Women's Center of Jacksonville	5644 Colcord Avenue Jacksonville, FL 32211	PC	Employee Matching	\$400
Woods Hole Oceanographic Institution	266 Woods Hole Road Woods Hole, MA 02543	PC	Evolutionary Metabolomics of Prochlorococcus and its Impact on the Dissolved Organic Carbon Cycle	\$58,373
Woods Hole Oceanographic Institution	266 Woods Hole Road Woods Hole, MA 02543	PC	Acquisition of an Ultrahigh Resolution Mass Spectrometer for Microbial Metabolomics	\$979,570
Worcester Polytechnic Institute	100 Institute Road Worcester, MA 01609	PC	Linkages and other geometric constraint systems	\$7,000
Worcester Polytechnic Institute	100 Institute Road Worcester, MA 01609	PC	Forward and inverse problems in electromagnetics and in geophysics	\$7,000
Worcester Polytechnic Institute	100 Institute Road Worcester, MA 01609	PC	Bayesian Nonignorable Nonresponse and Selection Models for Small Areas	\$7,000
Wright State University	201J University Hall 3640 Colonel Glenn Hwy Dayton, OH 45435	PC	Topological graph theory and matroid theory	\$7,000
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	Simons Investigator in Computer Science	\$132,000
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	Disrupted Network Activity in Neonatal Cortex of Mouse Models of Autism	\$62,500
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	High-throughput drug discovery in zebrafish models of ASD risk genes	\$125,000
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	Tracking Intervention Effects with Eye Tracking	\$249,931
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	Somatic Mosaicism in autism spectrum disorders	\$137,494
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	Restoring GABA inhibition in a Rett syndrome mouse model by tuning a kinase-regulated Cl ⁻ rheostat	\$66,839
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	SFARI Undergraduate Summer Research Program	\$19,700
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	The role of striatal interneurons in social deficits and repetitive behaviors	\$70,000
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	What constrains microbial diversity? Deriving new ecological principles for the microbial world	\$30,000
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	Simons Collaboration on the Non-perturbative Bootstrap	\$192,000
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	Network properties and plasticity in high- and low-gain cortical states - Project 1	\$153,000
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	Extending ASD risk locus discovery to the non-coding genome - Project 2	\$60,000
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	What constrains microbial diversity? Deriving new ecological principles for the microbial world	\$30,000

Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	Simons Simplex Collection Support Grant	\$9,825
Yonkers Partners in Education	86 Main St Yonkers, NY 10701	PC	Employee Matching	\$4,060
York College, City University of New York	94-20 Guy R Brewer Blvd Jamaica, NY 11451	PC	Wojciechowski_Collaboration_Grant	\$7,000
YWCA of White Plains and Central Westchester	515 North Street White Plains, NY 10605-3002	PC	Employee Matching	\$501
			Total Grants Paid	\$232,368,427

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Albert-Ludwigs University of Freiburg Fahnenbergplatz Freiburg, 79085	83,656	11/30/2016	21,071	Special Holonomy in Geometry, Analysis, and Physics	9/1/2017	No	N/A	N/A
Bilkent University Bilkent Universitesity Ankara, 06800	70,000	9/28/2016		Autism Spectrum Disorder (ASD) is a complex neurodevelopmental disorder and is the result of interplay between hundreds of genes. Recently, our understanding of the disorder has leaped forward with the unprecedented effort spent on sequencing ASD families and detecting high-risk de novo loss of function (LoF) mutations. Even though, we have pinpointed dozens of genes to date, we still have long ways to go. A few network-based ASD gene discovery algorithms have been developed with the following goals: (1) speeding the gene discovery process up using the guilt-by-association principle, and (2) understanding the affected functionality by analyzing the genes and the links in the predicted cluster. Fundamentally, these algorithms rely on the assumption that ASD risk genes are part of a functional gene network. However, the definition of a gene network in the state of the art ASD analyses is a single, flat and static network. This approach completely disregards the temporal dimension in the development/differentiation of the neurons and the brain tissue. The assumption of ASD genes being part of a functional machine is reasonable. However, the functional clustering of genes is bound to evolve over time and more than likely to have a cascading affect on the future associations. Thus, any approach that disregards the dynamic nature of a gene networks in neurodevelopment is highly restricted. In this project, we propose to design and develop algorithms that investigate dynamic gene interaction networks in the temporal dimension at the same time, in an integrated fashion. We will test the hypotheses that the ASD-risk genes are clustered through the neurodevelopment process rather than just in a snapshot, and that the functional circuits are sequentially affected. We are going to attempt to discover genes and functionalities that are (1) overlooked, as they are active in less interesting time-space regions, and then (2) that are prevalently affected throughout the neurodevelopment. This research will contribute to attempts towards uncovering the genetic origins of ASD via discovering new genes in the temporal dimension and improving our mechanistic understanding of the disorder.	11/1/2017	No	N/A	N/A
Botswana International University of Science and Technology Private Bag 16 Palapye, 267	103,520	7/22/2016 11/30/2016	51,599	The grant has two components: (i) Teaching and (ii) Research. Teaching is going on mainly at the University of Botswana where 4 MSC students are being supported to undertake studies in fulfillment of part I of the program. The students are enrolled in courses in Financial Mathematics (2 courses), Mathematical Biology (1 course) and Pure Mathematics (3 courses). This group of students forms the basis for future enrollment of PhD students for the project.	12/31/2016 7/1/2017	No	N/A	N/A
Centre de Recerca Matemàtica Campus de Bellaterra, Edifici C 08193 Bellaterra Barcelona, 08193	55,000	6/22/2016	55,000	Simons Visiting Program aimed at enhancing the participation of senior researchers in the CRM Intensive Research Programmes	10/1/2017	No	N/A	N/A
Centre de Recerca Matemàtica Via Laietana 2 08003, Barcelona	55,000	7/1/2014	55,000	Simons Visiting Program aimed at enhancing the participation of senior researchers in the CRM Intensive Research Programmes	8/31/2015, 8/31/2016	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Centre de Recerca Matemàtica Via Laietana 2 08003, Barcelona	55,000	6/12/2015	55,000	Simons Visiting Program aimed at enhancing the participation of senior researchers in the CRM Intensive Research Programmes	8/31/2016 10/1/2017	No	N/A	N/A
Charité Universitätsmedizin Berlin Hindenburgdamm 30 Berlin,12200	67,200	10/26/2017		Aberrant PI3K/PTEN signaling during brain development has emerged as a key determining factor in autism spectrum disorders (ASDs) Germline mutations in PTEN have been found in 20% of ASD patients with severe macrocephaly Indeed, there is a growing consensus that deregulation of PI3K/PTEN signaling signifies a convergent pathway for behavioral abnormalities associated with various neurodevelopmental disorders Recent reports also suggest the involvement of PI3K/PTEN signaling in Rett Syndrome, a postnatal neurodevelopmental disorder caused by mutations in global transcriptional regulator MeCP2 Despite diverse genetic origin and phenotypes, both PTEN and MeCP2-loss show strikingly related neuronal defects including effects on soma size, dendritic spine morphology and density and properties of glutamatergic synapses, which suggests the existence of common targeting mechanism of the two genes during neuronal development Accordingly, our preliminary results, using pharmacology and PTEN floxed mouse model, suggest that altered PI3K/PTEN signaling in neurons regulates MeCP2 binding to chromatin Additionally, we identify a novel interaction of PTEN with MeCP2 in the nucleus Thus, by antagonizing PI3K signaling in cytoplasm and by interacting with MeCP2, there seems to be a dual mode of PTEN effect on regulation of MeCP2 function in neurons In our study, we seek to identify the precise role of compartment-specific PTEN in regulating MeCP2 function during neural differentiation and circuit formation We hope to identify common transcriptional targets whose dysfunction may result in morphological and physiological aberrations in neurons eventually contributing to pathophysiology of ASDs	11/1/2017	No	N/A	N/A
Children’s Hospital of Fudan University 399 Wanyuan Rd Minhang District Shanghai	5,000	4/27/2016	5,000	2015 Asia Pacific Regional-IMFAR Meeting	3/1/2017	No	N/A	N/A
CNRS Regional Delegation Languedoc-Roussillon 1919, Route de Mende Montpellier, F-34293	85,000	1/27/2016	85,000	In the course of the Origin of Life process, the main features of living organisms emerged and most importantly the ability to evolve according to Darwinian theory Using the Systems Chemistry approach, the researchers seek to identify pathways leading to self-organization in chemical systems The researchers will investigate the potential role of chemically activated amino acid and peptide derivatives through their reactions with ribonucleotides and RNA and possibly in facilitating the replication process	1/1/2017	No	N/A	N/A
CNRS Regional Delegation Languedoc-Roussillon Route de Mende n 1919 Montpellier 34293, cedex 5, France F-34293	80,000	1/30/2014	80,000	In the course of the Origin of Life process, the main features of living organisms emerged and most importantly the ability to evolve according to Darwinian theory Using the Systems Chemistry approach, the researchers seek to identify pathways leading to self-organization in chemical systems The researchers will investigate the potential role of chemically activated amino acid and peptide derivatives through their reactions with ribonucleotides and RNA and possibly in facilitating the replication process	12/31/2014 1/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
CNRS Regional Delegation Languedoc-Roussillon Route de Mende n 1919 Montpellier 34293, cedex 5, France F-34293	80,000	1/28/2015	80,000	In the course of the Origin of Life process, the main features of living organisms emerged and most importantly the ability to evolve according to Darwinian theory Using the Systems Chemistry approach, the researchers seek to identify pathways leading to self-organization in chemical systems The researchers will investigate the potential role of chemically activated amino acid and peptide derivatives through their reactions with ribonucleotides and RNA and possibly in facilitating the replication process	1/1/2016 1/1/2017	No	N/A	N/A
Commissariat à l'Energie Atomique et aux Energies alternatives CEA Saclay /I2BM PC 141 Orsay Gif sur Yvette, France	25,000	11/30/2015	25,000	Simons Collaboration on the Many Electron Problem - PI, Cluster Embedding Group	5/1/2017	No	N/A	N/A
Commissariat à l'Energie Atomique et aux Energies alternatives CEA Saclay /I2BM PC 141 Orsay Gif sur Yvette, 91191	24,000	9/28/2016	9,162	Cracking the glass problem	7/1/2017	No	N/A	N/A
Commissariat à l'Energie Atomique et aux Energies alternatives CEA Saclay /I2BM PC 141 Orsay Gif sur Yvette, 91191 France	25,000	2/26/2016	28,773	Simons Collaboration on the Many Electron Problem - PI, Cluster Embedding Group	5/1/2017	No	N/A	N/A
Concordia University 1455 de Maisonneuve Blvd West Montreal,Québec H3G 1M8	78,925	9/28/2016		During the Fall 2016 I am planning on staying at my home institution (Concordia University) and working on the research project Adic Modular Forms and at the same time supervising my HQP's During the Winter 2017 I plan on visiting the Tata Institute, India, Milano University, Milan, Italy and Padova University, Padova, Italy During this time I would give lectures on my research results and work on the research project Adic Modular Forms, alone or with my collaborator Fabrizio Andreatta	9/1/2017	No	N/A	N/A
Ecole Normale Supérieure Paris 45 rue d'Ulm Paris,75230/05	57,989	11/30/2016		Simons Collaboration on the Non-perturbative Bootstrap	11/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Ecole Polytechnique Fédérale de Lausanne (EPFL) Building CE 3316, Station 1 Lausanne,1015	30,000	11/30/2016		Simons Collaboration on the Non-perturbative Bootstrap	11/1/2017	No	N/A	N/A
Ecole Polytechnique Fédérale de Lausanne (EPFL) Building CE 3316, Station 1 Lausanne,1015	79,244	8/26/2016	79,244	Cracking the glass problem	7/1/2017	No	N/A	N/A
Ecole Polytechnique Route de Saclay 91128 Palaiseau cedex, France	150,000	8/1/2014, 9/1/2014	150,000	Simons Collaboration on the Many Electron Problem - Cluster Embedding Group	4/30/2015 5/1/2017	No	N/A	N/A
Ecole Polytechnique Route de Saclay 91128 Palaiseau cedex, France	150,000	2/24/2015, 8/19/2015	150,000	Simons Collaboration on the Many Electron Problem - Cluster Embedding Group	5/1/2017	No	N/A	N/A
Ecole Polytechnique Route de Saclay 91128 Palaiseau cedex, France	150,000	2/26/2016 8/26/2016	63,426	Simons Collaboration on the Many Electron Problem - Cluster Embedding Group	5/1/2017	No	N/A	N/A
Erasmus Universitair Medisch Centrum Rotterdam s Gravendijkwal 230 Rotterdam,3015CE	125,000	4/27/2016 10/26/2016	57,537	The cause of autism spectrum disorders (ASD) is thought to involve a combination of both genetic and environmental factors One approach to understand the genetic contribution of ASD has been to utilize very large samples to investigate multiple genes associated with ASD Such an approach is known as a genome-wide association study, or GWAS While GWAS approaches have resulted in some interesting genetic ‘hits,’ similar ‘environmental-wide’ approaches have never been applied to assess potential environmental factors associated with ASD Yet this is extremely important, since some environmental factors may be directly modifiable However, environmental-wide studies require large populations with carefully and systematically collected data involving multiple environmental variables The Generation R Study is a prenatal cohort in which nearly 10,000 children were recruited and the children are now approaching ten years of age Measures of autistic symptoms were obtained when the children were six years of age In addition, multiple environmental measures have been systematically collected over time, beginning in the first trimester These measures include toxins, heavy metals, pollutants, nutritional factors such as fatty acid and folate levels, obstetric factors, and numerous other factors totaling over 200 relevant variables In addition, as a part of this study researchers plan to use maternal blood obtained during pregnancy to assess markers of acute viral infections Researchers will explore the combination of genetic and environmental factors by selecting children who are at high genetic risk for ASD to further help identify the combined role of genetics and the environment in the development of ASD Finally, researchers will utilize novel machine learning techniques to derive measures to predict ASD based on multiple genetic and environmental variables In order to assure that the findings are not the result of chance alone, researchers plan to replicate the findings in an independent sample prior to publication	4/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Erasmus Universitair Medisch Centrum Rotterdam Dr Molewaterplein 50 3015 GE Rotterdam, The Netherlands 3015CE	125,000	4/30/2015, 10/30/2015	125,000	The cause of autism spectrum disorders (ASD) is thought to involve a combination of both genetic and environmental factors One approach to understand the genetic contribution of ASD has been to utilize very large samples to investigate multiple genes associated with ASD Such an approach is known as a genome-wide association study, or GWAS While GWAS approaches have resulted in some interesting genetic ‘hits,’ similar ‘environmental-wide’ approaches have never been applied to assess potential environmental factors associated with ASD Yet this is extremely important, since some environmental factors may be directly modifiable However, environmental-wide studies require large populations with carefully and systematically collected data involving multiple environmental variables The Generation R Study is a prenatal cohort in which nearly 10,000 children were recruited and the children are now approaching ten years of age Measures of autistic symptoms were obtained when the children were six years of age In addition, multiple environmental measures have been systematically collected over time, beginning in the first trimester These measures include toxins, heavy metals, pollutants, nutritional factors such as fatty acid and folate levels, obstetric factors, and numerous other factors totaling over 200 relevant variables In addition, as a part of this study researchers plan to use maternal blood obtained during pregnancy to assess markers of acute viral infections Researchers will explore the combination of genetic and environmental factors by selecting children who are at high genetic risk for ASD to further help identify the combined role of genetics and the environment in the development of ASD Finally, researchers will utilize novel machine learning techniques to derive measures to predict ASD based on multiple genetic and environmental variables In order to assure that the findings are not the result of chance alone, researchers plan to replicate the findings in an independent sample prior to publication	4/1/2016 4/1/2017	No	N/A	N/A
Erwin Schrodinger International Institute for Mathematical Physics University of Vienna	110,000	2/24/2015	110,000	Simons Junior Professor in Mathematics or Mathematical Physics	4/30/2016	No	N/A	N/A
Erwin Schrodinger International Institute for Mathematical Physics Boltzmanngasse 9 Vienna, A-1090	110,000	4/27/2016	110,000	Simons Junior Professor in Mathematics or Mathematical Physics	4/30/2017	No	N/A	N/A
Fondazione Istituto Italiano di Tecnologia Via Morego 30 Genova,16163	67,436	11/30/2016		Human neuroimaging studies have described altered structural (as seen with Diffusion Tensor Imaging – DTI) and functional connectivity (as measured with resting-state fMRI - rsfMRI) across brain regions of autistic spectrum disorders (ASD) patients These findings have led to the hypothesis that altered brain connectivity may play a key pathophysiological contribution in ASD, a theory known as “connectivity hypothesis” of autism Despite the popularity of this theory, the determinants and interpretation of these findings remain unclear Specifically, it is not known whether these abnormalities are a causative or an epiphenomenal manifestation of the underlying pathology, and whether their highly heterogeneous expression reflects cohort effects, different genetic etiologies, neurodevelopmental trajectories, or methodological discrepancies In an attempt to clarify these issues, we recently used resting state fMRI and high-resolution DTI mapping in the mouse to assess whether specific ASD-related genetic etiologies lead to discernible macro-scale connectivity alterations We imaged three well-characterized mouse autism models with high construct validity, namely Cntnap2 null mice, Shank3 null mutants, and mice carrying a hemizygous deletion syntenic to human 16p11.2 syndrome Despite heterogeneity in the etiology of the mutations investigated, and notwithstanding some clear differences in the magnitude and anatomical extension of the effect mapped, our preliminary results revealed evidence of converging functional hypo-connectivity in high order integrative prefrontal cingulate/prefrontal regions in all the three strains The investigation of additional genetic etiologies, possibly covering heterogeneous pathophysiological pathways, is required to understand whether the observed connectional signatures can be regarded as a generalizable phenomenon, or are mutation specific Here we propose to expand our recent research by measuring connectivity in two additional autism mouse models recapitulating core autism traits in mice, and harboring genetic mutations recapitulating syndromes characterized by high autism penetrance Specifically, we will image mice with triple genetic dosage of the ubiquitin protein ligase Ube3A, a mouse line reproducing 15q11-13 triplication syndrome, and tuberous sclerosis complex 2 (Tsc2+/-) deficient mice, recapitulating a mutation leading to mTOR-dependent increased spine complexity analogous to those observed in post-mortem ASD brain samples To unravel the relationship between functional connectivity and the underlying axonal architecture we also propose to parallel our connectivity mapping with mesoscale long-range projection axonal mapping and neuroanatomical assessments of white matter integrity Finally, we aim to investigate the behavioral relevance of connectivity alterations by correlating imaging readouts with core behavioral phenotypes in these mice, and, in Tsc2+/- mutant, by measuring connectivity before and after rapamycin administration, a treatment that normalizes social and synaptic abnormalities observed in these mice, thus permitting an assessment of whether connectivity alterations are necessary for the expression of ASD-related behaviors, or are an epiphenomenal manifestation of the underlying pathology Taken together, these experiments will provide detailed examinations of the determinants and significance of connectivity changes associated with genetic etiologies with high ASD penetrance	11/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Funda�,o D Anna de Sommer Champalimaud e Dr Carlos Montez Champalimaud Av De Brasilia Lisbon, Portugal 1400-038	75,000	5/30/2015	75,000	Researchers are constantly faced with the trade-off between exploiting past actions with known outcomes and exploring novel actions whose outcomes may be better When the environment is stable, it is preferable to perform actions that are known to be most rewarding, because these rewards are unlikely to have changed However, when the environment is changeable, it is adaptive to continuously explore alternative actions and revisit past actions whose value may have changed, in case more rewarding options have become available This balance between exploitation and exploration is thought to be controlled by dopaminergic neurons in structures of the brain that are related to skill learning and action selection and that malfunction in Parkinson’s disease However, little is known about the precise ways in which environmental changes impact levels of behavioral exploration, and even less is known about the dynamics of these populations of dopaminergic cells during behavioral exploration and during adaptation in response to environmental changes In the current project, researchers will train rodents to choose between a number of distinct actions that are rewarded with different probabilities, and in cases when these probabilities of reward are either constant or changeable While rodents are performing this task, researchers will measure activity in large populations of neurons in the dopamine system and relate the dynamics of this population activity to the choices that the animals make Finally, researchers will artificially increase or decrease the activity in these populations of neurons and examine if modulating these cells causes a change in the choices that the animals make In performing this project, novel recording technologies and methods for data analysis will be developed These experiments will clarify the ways in which changes in the dopamine system can control the balance between exploitation of “tried and true” past actions and exploration of new actions, which will suggest a neural basis for the ability to develop novel, creative behavioral responses when the environment suddenly changes	5/1/2016 5/1/2017	No	N/A	N/A
Funda��o D Anna de Sommer Champalimaud e Dr Carlos Montez Champalimaud Av de Bras�lia Lisbon,1400-038	78,000	5/25/2016	62,257	Researchers are constantly faced with the trade-off between exploiting past actions with known outcomes and exploring novel actions whose outcomes may be better When the environment is stable, it is preferable to perform actions that are known to be most rewarding, because these rewards are unlikely to have changed However, when the environment is changeable, it is adaptive to continuously explore alternative actions and revisit past actions whose value may have changed, in case more rewarding options have become available This balance between exploitation and exploration is thought to be controlled by dopaminergic neurons in structures of the brain that are related to skill learning and action selection and that malfunction in Parkinson’s disease However, little is known about the precise ways in which environmental changes impact levels of behavioral exploration, and even less is known about the dynamics of these populations of dopaminergic cells during behavioral exploration and during adaptation in response to environmental changes In the current project, researchers will train rodents to choose between a number of distinct actions that are rewarded with different probabilities, and in cases when these probabilities of reward are either constant or changeable While rodents are performing this task, researchers will measure activity in large populations of neurons in the dopamine system and relate the dynamics of this population activity to the choices that the animals make Finally, researchers will artificially increase or decrease the activity in these populations of neurons and examine if modulating these cells causes a change in the choices that the animals make In performing this project, novel recording technologies and methods for data analysis will be developed These experiments will clarify the ways in which changes in the dopamine system can control the balance between exploitation of “tried and true” past actions and exploration of new actions, which will suggest a neural basis for the ability to develop novel, creative behavioral responses when the environment suddenly changes	5/1/2017	No	N/A	N/A
Funda��o D Anna de Sommer Champalimaud e Dr Carlos Montez Champalimaud Av Bras�lia 1400-038 Lisboa, Portugal	107,254	3/25/2015, 9/25/2015	107,254	Learning to automatize actions and form habits is critical for mastering every day skills and activities such as riding a bike, speaking or writing However, if automatized actions and habits are too strong, this can lead to an overabundance of stereotyped, repetitive behaviors and to lack of control or ability to switch to novel behavioral patterns Patients with Autism Spectrum Disorders (ASD) demonstrate impaired habit learning and repetitive behaviors The neural circuits underlying these behaviors, however, remain unclear The dorsolateral striatum, a region of the basal ganglia, has been implicated in habit formation and repetitive behavior However, the link between dysfunction of this structure and ASD-related repetitive behavior remains elusive Interestingly, the striatum, the major input structure of the basal ganglia, is a complex structure with several subcircuits, including a ‘direct pathway’ to the output nuclei (striatonigral) and an ‘indirect pathway’ to the output nuclei (striatopallidal) thought to facilitate or inhibit movement, respectively In this proposal, the researchers will directly assess the relationship between repetitive behaviors and habit formation in mice with deletions in the ASD-associated genes, CNTNAP2 and Shank3 The researchers will then image striatal circuit dynamics in these mice using a miniature microscope and a genetically encoded calcium indicator to visualize neuronal activity during their stereotyped, repetitive grooming and habit formation Finally, the researchers will directly determine if manipulating either direct or indirect pathway function by activating or inhibiting their activity during repetitive behaviors and habit formation can ameliorate or exacerbate the behavioral symptoms Using these approaches, the researchers hope to identify the striatal neuronal pathway dysfunction mediating these behaviors determined as core ASD symptoms	3/1/2016	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Fundação D Anna de Sommer Champalimaud e Dr Carlos Montez Champalimaud Av Brasilia 1400-038 Lisboa, Portugal	200,438	3/25/2015, 9/25/2015	200,438	Uncertainty is a paramount issue for diverse aspects of cognition Even given perfect noiseless sensory data, if an agent’s model of the causal structure of the world is imperfect, there will exist uncertainty about which outcomes will result from specific actions, or “policy uncertainty” For instance, when a person leaves his or her home he or she needs to decide what type of jacket to wear Looking at the sky or checking the forecast can help a person predict the weather for the rest of the day but this prediction will be subject to uncertainty, which in turn implies uncertainty in the policy on what to wear In this proposal, researchers will investigate the brain systems involved in processing policy uncertainty in the context of decision-making Researchers will address two questions (I) How is policy uncertainty associated with different actions encoded in brain areas responsible for action selection? (II) How is policy uncertainty decoded in order to form estimates of outcome probabilities, as is crucial for reporting decision confidence? Researchers hypothesize that in premotor cortical areas, the identity of candidate actions and their associated uncertainties are intermingled Researchers then look in the reciprocally connected orbitofrontal cortex (OFC) to assess how action uncertainty is decoded to inform outcome predictions The work will help to addresses the critical issues of how policy uncertainty is encoded and decoded by neuronal populations The experiments on premotor cortex will test alternative coding hypotheses and reveal whether uncertainty coding varies within different layers of a cortical circuit The experiments will reveal how implicit representations of uncertainty can be read out, possibly revealing new generic algorithms for so-called metacognitive processes that are a hallmark of higher cognition	9/1/2016	No	N/A	N/A
Fundação D Anna de Sommer Champalimaud e Dr Carlos Montez Champalimaud Av Brasilia 1400-038 Lisboa, Portugal	144,832	3/29/2016 9/28/2016	144,831	Uncertainty is a paramount issue for diverse aspects of cognition Even given perfect noiseless sensory data, if an agent’s model of the causal structure of the world is imperfect, there will exist uncertainty about which outcomes will result from specific actions, or “policy uncertainty” For instance, when a person leaves his or her home he or she needs to decide what type of jacket to wear Looking at the sky or checking the forecast can help a person predict the weather for the rest of the day but this prediction will be subject to uncertainty, which in turn implies uncertainty in the policy on what to wear In this proposal, researchers will investigate the brain systems involved in processing policy uncertainty in the context of decision-making Researchers will address two questions (I) How is policy uncertainty associated with different actions encoded in brain areas responsible for action selection? (II) How is policy uncertainty decoded in order to form estimates of outcome probabilities, as is crucial for reporting decision confidence? Researchers hypothesize that in premotor cortical areas, the identity of candidate actions and their associated uncertainties are intermingled Researchers then look in the reciprocally connected orbitofrontal cortex (OFC) to assess how action uncertainty is decoded to inform outcome predictions The work will help to addresses the critical issues of how policy uncertainty is encoded and decoded by neuronal populations The experiments on premotor cortex will test alternative coding hypotheses and reveal whether uncertainty coding varies within different layers of a cortical circuit The experiments will reveal how implicit representations of uncertainty can be read out, possibly revealing new generic algorithms for so-called metacognitive processes that are a hallmark of higher cognition	9/1/2017	No	N/A	N/A
Fundação D Anna de Sommer Champalimaud e Dr Carlos Montez Champalimaud Av Brasilia 1400-038 Lisboa, Portugal	99,035	3/25/2015, 9/25/2015	99,035	The proposal concerns the role of the basal ganglia in goal-directed movement behavior A wealth of data indicates that this collection of subcortical nuclei is important for movement, for example, basal ganglia diseases cause profound movement disorders (e g , Parkinson’s) The basal ganglia (BG) receives inputs from nearly the entire cortical mantle including numerous motor areas, and principally influence behavior not through projections to the spinal cord, but rather through projections back to the very cortical areas from which they receive inputs The core hypothesis is that a major function of the basal ganglia is to bias cortical activity towards states for generating actions associated with positive reinforcement Borrowing a useful analogy, outputs of the BG are forcing functions acting on cortical activity The researchers elaborate below how recent dynamical systems approaches to motor cortical function are highly relevant for thinking about how the BG contributes to goal-directed behavior, and also allow for transformation of the notion of the BG as a forcing function from abstract analogy into concrete testability	9/1/2016	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Fundação D Anna de Sommer Champalimaud e Dr Carlos Montez Champalimaud Av Brasília 1400-038 Lisboa, Portugal	143,537	3/29/2016 9/28/2016	143,537	The proposal concerns the role of the basal ganglia in goal-directed movement behavior A wealth of data indicates that this collection of subcortical nuclei is important for movement, for example, basal ganglia diseases cause profound movement disorders (e g , Parkinson’s) The basal ganglia (BG) receives inputs from nearly the entire cortical mantle including numerous motor areas, and principally influence behavior not through projections to the spinal cord, but rather through projections back to the very cortical areas from which they receive inputs The core hypothesis is that a major function of the basal ganglia is to bias cortical activity towards states for generating actions associated with positive reinforcement Borrowing a useful analogy, outputs of the BG are forcing functions acting on cortical activity The researchers elaborate below how recent dynamical systems approaches to motor cortical function are highly relevant for thinking about how the BG contributes to goal-directed behavior, and also allow for transformation of the notion of the BG as a forcing function from abstract analogy into concrete testability	9/1/2017	No	N/A	N/A
Fundaci�n Jos� A Balseiro Av Bustillo 9500 Bariloche, Argentina 8400	110,000	11/30/2015	40,527	It from Qubit Quantum Fields, Gravity, and Information	11/1/2016	No	N/A	N/A
Governing Council of the University of Toronto 12 Queen's Park Crescent West McMurrich Building, 3rd Floor Toronto, Ontario M5S 1S8	132,000	3/29/2016	112,485	I proposing a sabbatical from January to December of 2016, to be based at my home institution (the University of Toronto), with visits of roughly two months each to MSRI Berkeley and the Mittag Leffler Institute in Sweden My main scientific goals during that time are the advancement of the theory of optimal transportation, its variants, and applications to geometry, economics, and fluid mechanics I am particularly interested in uniqueness and regularity questions concerning optimizers in a geometric setting, capacity constrained transport, wage singularities in economic matching models, fourth-order diffusions, and the formation and evolution of atmospheric pressure fronts in the semigeostrophic theory	3/1/2017	No	N/A	N/A
Governing Council of the University of Toronto 12 Queen's Park Crescent West McMurrich Building, 3rd Floor Toronto, Ontario M5S 1S8	24,000	8/26/2016	12,376	This thesis is in the area of computational complexity with a focus on various restricted models of computation Specifically, the focus will be on understanding the basic limitations of (1) communication protocols and (2) distributed algorithms In both settings, the goal is to prove lower bounds on the relevant resources (time, space, bits of communication, number of messages) that are needed to solve a particular computational problem	8/1/2017	No	N/A	N/A
Governing Council of the University of Toronto 12 Queen's Park Crescent West McMurrich Building, 3rd Floor Toronto, Ontario M5S 1S8	96,851	9/28/2016	84,851	In January-May 2016 I will be at MSRI for the program on Differential Geometry For the second half of 2016 I am applying to be at Max Planck Institute in Bonn At MSRI I mostly want to study the relationship between spaces with lower Ricci and sectional curvature bounds In particular I am interested in showing that the boundary of an Alexandrov space satisfies the restricted curvature-dimension condition (RCD) and whether a space satisfying RCD(2,k) condition is Alexandrov I plan to continue studying these problems in the second half of the year as well as work on other ongoing projects including a book on Alexandrov geometry I am writing with Anton Petrunin and Stephanie Alexander	3/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Governing Council of the University of Toronto 12 Queen's Park Crescent West McMurrich Building, 3rd Floor Toronto, Ontario Canada M5S 1S8	88,391	9/30/2015	88,691	This study has two main scientific goals 1 To make progress in understanding the relationship between generalized Kahler geometry and the quantization of holomorphic Poisson structures, with a specific aim of approaching Kontsevich's conjecture on exact deformation quantization of quadratic Poisson structures 2 To apply researcher groupoid-theoretic understanding of the isomonodromic deformation of meromorphic connections to shed new light on the recent advances in the exact WKB method, with a specific aim of approaching the solution of Hitchin's equations via spectral networks as proposed by Gaiotto--Moore--Neitzke	2/26/2016	No	N/A	N/A
Governing Council of the University of Toronto 12 Queen's Park Crescent West McMurrich Building, 3rd Floor Toronto, Ontario Canada M5S 1S8	24,000	8/31/2015	24,000	This thesis is in the area of computational complexity with a focus on various restricted models of computation Specifically, the focus will be on understanding the basic limitations of (1) communication protocols and (2) distributed algorithms In both settings, the goal is to prove lower bounds on the relevant resources (time, space, bits of communication, number of messages) that are needed to solve a particular computational problem	8/1/2017	No	N/A	N/A
Hebrew University of Jerusalem Authority for Research and Development Edmond J Safra Campus, Givat Ram 91904 Jerusalem, Israel	110,000	11/30/2015	41,786	It from Qubit Quantum Fields, Gravity, and Information	11/1/2016	No	N/A	N/A
ICTP South American Institute for Fundamental Research Avenida Rio Branco 1210 - Campos Eliseos Sao Paulo, SP - CEP 01206-001	60,000	10/1/2014	60,000	Sao Paulo State Research Funding Agency Fellowship	10/31/2015, 10/31/2016	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
ICTP South American Institute for Fundamental Research Avenida Rio Branco 1210 - Campos Eliseos Sao Paulo, SP - CEP 01206-001	60,000	9/25/2015	60,000	Sao Paulo State Research Funding Agency Fellowship	10/31/2016	No	N/A	N/A
IMP Research Institute of Molecular Pathology GmbH Campus-Vienna-Biocenter 1 Vienna, 1030, Austria	166,287	3/29/2017 10/26/2017	116,600	In the human brain, billions of networked neurons sense the environment, process, store, and retrieve information, and produce thoughts and behavior on a continuous basis. A major program of neuroscience today is to attempt to understand the mechanism behind these cognitive processes by mapping in detail the brain anatomy of model organisms such as mice and fruit flies. These efforts are challenged by the sheer numerical complexity of neuronal wiring found even in these small animals. There is currently no framework to interpret this vast anatomical data. This is exemplified by the fact that the nervous system of the small soil worm <i>C. elegans</i>, which has only 302 neurons, was mapped in exquisite anatomical detail 25 years ago, yet it is still largely unknown how this brain produces competent, ongoing behavior. One principle neuroscientists largely agree on: it is the collective dynamical activity of internetworked neurons that produces thoughts and behavior in real time. However, the relationship between this activity and the network structure upon which it plays out on is a huge unknown. This lab has developed a new microscopy technology that can, for the first time, capture the real time activity of an entire brain at single-cell resolution. Researchers will use this platform, coupled with a novel experimental approach to arouse worms with complex, varied stimuli and computational methods for distilling functional relationships from network-wide activity data, to unravel the relationship between the connectome and dynamics in the worm brain. The function-from-structure question is of fundamental significance to the brain mapping efforts underway in more complex organisms, this work in the worm will establish a baseline of how useful a connectome can be for elucidating the neural mechanisms of thought. The researchers thus will discover general principles of how function arises from brain architecture.	9/1/2017	No	N/A	N/A
IMP Research Institute of Molecular Pathology GmbH Dr. Bohr-Gasse 7 1030 Vienna, Austria	117,634	3/25/2015, 9/25/2015	117,634	In the human brain, billions of networked neurons sense the environment, process, store, and retrieve information, and produce thoughts and behavior on a continuous basis. A major program of neuroscience today is to attempt to understand the mechanism behind these cognitive processes by mapping in detail the brain anatomy of model organisms such as mice and fruit flies. These efforts are challenged by the sheer numerical complexity of neuronal wiring found even in these small animals. There is currently no framework to interpret this vast anatomical data. This is exemplified by the fact that the nervous system of the small soil worm <i>C. elegans</i>, which has only 302 neurons, was mapped in exquisite anatomical detail 25 years ago, yet it is still largely unknown how this brain produces competent, ongoing behavior. One principle neuroscientists largely agree on: it is the collective dynamical activity of internetworked neurons that produces thoughts and behavior in real time. However, the relationship between this activity and the network structure upon which it plays out on is a huge unknown. This lab has developed a new microscopy technology that can, for the first time, capture the real time activity of an entire brain at single-cell resolution. Researchers will use this platform, coupled with a novel experimental approach to arouse worms with complex, varied stimuli and computational methods for distilling functional relationships from network-wide activity data, to unravel the relationship between the connectome and dynamics in the worm brain. The function-from-structure question is of fundamental significance to the brain mapping efforts underway in more complex organisms, this work in the worm will establish a baseline of how useful a connectome can be for elucidating the neural mechanisms of thought. The researchers thus will discover general principles of how function arises from brain architecture.	9/1/2016 9/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Independent University of Moscow 11 Bolshoi Vlasievskii Moscow, 119002	200,000	3/29/2016 8/26/2016	197,436	Support funding of Simons IUM Fellowships, Simons Stipdends for Students and Graduate Students, and the Simons Award for the former Winners of Pierre Deline and Dynasty contests	1/15/2017	No	N/A	N/A
Independent University of Moscow Leninskii Street 2a, Office 4a-03 Moscow 119046, Russian Federation	200,000	4/1/2015, 9/1/2015	200,000	Support funding of Simons IUM Fellowships, Simons Stipdends for Students and Graduate Students, and the Simons Award for the former Winners of Pierre Deline and Dynasty contests	1/15/2016 1/15/17	No	N/A	N/A
Institut des Hautes Etudes Scientifiques Le Bois-Marie 35, route de Chartres Bures-sur-Yvette, France 91440	443,754	9/30/2015, 12/31/2015		MPS Institutes Homological Mirror Symmetry and Applications		No	N/A	N/A
Institut des Hautes Etudes Scientifiques Le Bois-Marie 35, route de Chartres Bures-sur-Yvette, France 91440	457,410	4/1/2016 6/22/2016		MPS Institutes Homological Mirror Symmetry and Applications		No	N/A	N/A
Institut des Hautes Etudes Scientifiques Le Bois-Marie 35, route de Chartres Bures-sur-Yvette, France 91440	65,082	11/30/2015	65,082	Homological Mirror Symmetry and Applications	11/1/2016	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Institut des Hautes Etudes Scientifiques Le Bois-Marie 35, route de Chartres Bures-sur-Yvette, France 91440	278,564	5/25/2016 11/30/2016	28,647	Homological Mirror Symmetry and Applications	11/1/2016	No	N/A	N/A
Institut National de la Santé et de la Recherche Médicale 101 rue de Tolbiac paris, 75013	69,036	6/22/2016	69,036	How the basal ganglia forces cortex to do what it wants	12/1/2016	No	N/A	N/A
Institut National de la Santé et de la Recherche Médicale Inserm Dr Paris 6 127 Avenue Ledru Rollin 75011 Paris, France	100,959	6/12/2015, 12/21/2015	100,959	How the basal ganglia forces cortex to do what it wants	12/1/2015, 12/1/2016	No	N/A	N/A
Institute of Mathematics of the Polish Academy of Sciences Sniadeckich 8 Warsaw, Poland 00-656	64,800	9/25/2015	64,800	The goal is to establish a program “Simons Semesters in the International Banach Center”, as a new form of research activity at the Institute of Mathematics of the Polish Academy of Sciences (IMPAN) and use this program to build the scientific reputation of IMPAN as one of the world’s leading mathematical centers That is a position which Polish Mathematics held eighty years ago The plan is to run expert-guided semester-long courses and shorter mini-courses for young mathematicians The Simons Semester fellows will be expected to teach, provide tutoring, and collaborate with younger colleagues at IMPAN They will become their mentors It is assumed that some of these interactions will lead to fruitful and extended cooperation The topics of the semesters will cover areas of modern mathematics in which the program has some background but need outside expertise to reach the forefront The scope of the program will include PhD students and young post-docs of IMPAN and PhD students of other leading mathematical departments in Poland and in Central-Eastern Europe IMPAN offers substantial matching funds to the project These funds will finance participation of young mathematicians (through phd fellowships and internships and postdoc positions), as well as week-long schools and workshops in the Semesters The necessary infrastructure and experience is already in place	2/28/2016	No	N/A	N/A
Institute of Mathematics of the Polish Academy of Sciences Sniadeckich 8 Warsaw, Poland 00-656	162,000	3/29/2016 9/28/2016	107,212	The goal is to establish a program “Simons Semesters in the International Banach Center”, as a new form of research activity at the Institute of Mathematics of the Polish Academy of Sciences (IMPAN) and use this program to build the scientific reputation of IMPAN as one of the world’s leading mathematical centers That is a position which Polish Mathematics held eighty years ago The plan is to run expert-guided semester-long courses and shorter mini-courses for young mathematicians The Simons Semester fellows will be expected to teach, provide tutoring, and collaborate with younger colleagues at IMPAN They will become their mentors It is assumed that some of these interactions will lead to fruitful and extended cooperation The topics of the semesters will cover areas of modern mathematics in which the program has some background but need outside expertise to reach the forefront The scope of the program will include PhD students and young post-docs of IMPAN and PhD students of other leading mathematical departments in Poland and in Central-Eastern Europe IMPAN offers substantial matching funds to the project These funds will finance participation of young mathematicians (through phd fellowships and internships and postdoc positions), as well as week-long schools and workshops in the Semesters The necessary infrastructure and experience is already in place	3/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Institute of Molecular Biology, Academia Sinica 128, Sec 2, Academia Rd Taiper, 11529	70,000	3/29/2016	70,000	Autism spectrum disorders (ASD) are frequently associated with immune dysregulation. Peripheral immune responses and microglial function have been the major focus in the field. However, recent studies have suggested that neurons are also able to use their own innate immune receptors, including toll-like receptors (TLRs), to detect the danger signals derived from both endogenous cells and pathogens. Yi-Ping Hsueh and others have demonstrated that activation of TLRs, such as TLR3, TLR7 and TLR8, negatively regulate neurite or dendritic outgrowth1-3. MYD88, c-FOS, and IL-6 have been shown to function downstream of TLR73, however, it is still unknown how TLR3 and TLR8 negatively regulate neuronal morphology. The aim of this proposal is to elucidate the TLR3 and TLR8 signaling pathways in neurons. Preliminary studies suggest that TLR3 activation (achieved via polyinosinic polycytidylic acid [poly I C] treatment in cultured neurons) disrupts axonal and dendritic outgrowth through the MYD88 signaling pathway. Further, TLR3 activation leads to reduced expression of a number of ASD risk genes, including DISC1, AUTS2, FMR1 and UBE3A. Hsueh and her colleagues also found that rescuing DISC1 expression in poly I C-treated neurons restores the dendritic growth phenotype. Combined, these data suggest that TLR3-mediated innate immune responses are mediated, at least in part, via alterations in ASD-risk genes. The researchers will further assess this hypothesis by examining the involvement of MYD88 in the downregulation of DISC1, AUTS2, FMR1 and UBE3A expression induced by TLR3 activation. They will also study the rescue effect of overexpression of AUTS2, FMR1 and UBE3A on the morphological impairments caused by TLR3 activation. The proposed experiments will help elucidate roles played by the neuronal innate immune system in neuronal morphogenesis, and will further our understanding of how environmental immune challenges and autism risk genes may interact and contribute to ASD.	5/1/2017	No	N/A	N/A
Institute of Science and Technology Austria Am Campus 1 Klosterneuburg, 3400	99,730	11/30/2016		Single-nucleotide polymorphism genotyping and whole-exome and whole-genome sequencing studies have been key for the identification of genetic loci and mutations underlying autism spectrum disorder (ASD) susceptibility. Although none of the risk genes identified so far contribute to more than 1 percent of ASD cases, overall the search for ASD treatments can profoundly benefit from the study of rare and syndromic forms of ASDs. Loss-of-function mutations in SETD5 have been identified as a relatively frequent cause of intellectual disability (ID) and ASD. SETD5 deletion is also seen in patients with 3p25.3 microdeletion syndrome and has been shown to account for many of the clinical features associated with this syndrome1,2. SET-domain-containing proteins interact with chromatin and catalyze histone H3 and H4 methylation of lysine residues. SETD5 is mainly located within the nucleus, making this protein a strong candidate for regulating histone methylation to control chromatin condensation and consequently gene transcription. Gaia Novarino plans to employ a SETD5 conditional knockout mouse to identify pathophysiological mechanisms underlying ASD and ID phenotypes. Because SETD5 is expressed in the brain over the course of the entire life, Novarino's group will also assess the temporal development of ASD-related phenotypes in these mice and determine the potential for rescuing behavioral phenotypes in adulthood. Results from this study will help to further our understanding of neuropathological mechanisms underlying ASD and may point the way toward therapeutic strategies for individuals with SETD5-dependent ASD and ID.	11/1/2017	No	N/A	N/A
International Centre for Theoretical Sciences of Tata Institute of Fundamental Research TIFR Centre Building, IISC Campus, Malleshwaram, Bengaluru, India 560012	200,000	4/24/2015	200,000	ICTS combines high-quality visitor driven programs of varying duration with top-notch in-house research in various areas of the theoretical sciences, with the aim of creating an interactive and participatory environment of research in the basic sciences. The programs have both educational and research components and contain embedded conferences and there are also short focused discussion meetings and workshops. The in-house research at ICTS is organized as a union of families of researchers consisting of faculty, postdocs and graduate students. The scientific questions that drive the current ICTS faculty research are from the areas of Astrophysical Relativity, Dynamical Systems and Data Assimilation, Statistical Physics, Physical Biology and String Theory. There is a dedicated effort to establish units in condensed matter physics, and interdisciplinary/exploratory mathematics. Established in 2007, ICTS has organized 88 programs and 25 discussion meetings, which has made substantial impact on the Indian science scene. Its present faculty strength is 8 and will be 12 by early next year when new members join. ICTS is temporarily housed in the Indian Institute of Science, Bangalore till its new state of the art residential campus that can accommodate more than 150 academic members and visitors will be ready by early 2015. The Simons Targeted Grant will make ICTS competitive to attract outstanding postdoctoral fellows, boost international participation in its programs and make possible extended stays at ICTS by leading scientists from around the world. In short, it will provide the Centre with the additional resources and flexibility it needs to achieve its stated goals.	3/31/2016 4/1/2017	No	N/A	N/A
International Centre for Theoretical Sciences of Tata Institute of Fundamental Research TIFR Centre Building, IISC Campus, Malleshwaram, Bengaluru, India 560012	200,000	2/26/2016	40,436	ICTS combines high-quality visitor driven programs of varying duration with top-notch in-house research in various areas of the theoretical sciences, with the aim of creating an interactive and participatory environment of research in the basic sciences. The programs have both educational and research components and contain embedded conferences and there are also short focused discussion meetings and workshops. The in-house research at ICTS is organized as a union of families of researchers consisting of faculty, postdocs and graduate students. The scientific questions that drive the current ICTS faculty research are from the areas of Astrophysical Relativity, Dynamical Systems and Data Assimilation, Statistical Physics, Physical Biology and String Theory. There is a dedicated effort to establish units in condensed matter physics, and interdisciplinary/exploratory mathematics. Established in 2007, ICTS has organized 88 programs and 25 discussion meetings, which has made substantial impact on the Indian science scene. Its present faculty strength is 8 and will be 12 by early next year when new members join. ICTS is temporarily housed in the Indian Institute of Science, Bangalore till its new state of the art residential campus that can accommodate more than 150 academic members and visitors will be ready by early 2015. The Simons Targeted Grant will make ICTS competitive to attract outstanding postdoctoral fellows, boost international participation in its programs and make possible extended stays at ICTS by leading scientists from around the world. In short, it will provide the Centre with the additional resources and flexibility it needs to achieve its stated goals.	4/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
International Mathematical Union Markgrafenstr 32 Berlin, 10117	55,000	11/30/2016	1,000	IMU-Simons African Fellowship Program	3/1/2017	No	N/A	N/A
International Mathematical Union Secretariat, Markgrafenstr 32 D-10117 Berlin, Germany	25,000	9/1/2013	25,000	The International Mathematical Union (IMU) has been very sensitive to the needs of mathematicians working in developing and economically disadvantaged countries In order to consolidate the efforts of the IMU to help such mathematicians through its different agencies, it established in 2011 the Commission for Developing Countries (CDC) which is responsible for all IMU initiatives to help mathematicians from developing countries One of the major problems faced by mathematicians in the so-called third world is that of isolation On one hand their countries cannot afford to provide them with adequate financial support to have basic facilities like well equipped libraries However, with the advent of the internet, this problem is mitigated to a certain extent On the other hand, these mathematicians work in understaffed mathematics departments and so are subjected to very heavy teaching loads, thereby having very little time for pursuing their individual research interests Further, each mathematician is often the only person working in his/her research area and so (s)he cannot have useful and stimulating mathematical discussions which are essential to generate new ideas in research Such mathematicians, therefore, need time off from their usual duties to recharge their intellectual batteries and to initiate collaborative research with mathematicians working in centres of excellence elsewhere in the world under favourable working conditions The CDC helps mathematicians from developing or economically disadvantaged countries to overcome this problem by funding their travel to a centre of excellence for collaborative research	10/31/2014, 10/31/2015, 10/31/2016	No	N/A	N/A
International Mathematical Union Secretariat, Markgrafenstr 32 D-10117 Berlin, Germany	25,000	9/1/2014	25,000	The International Mathematical Union (IMU) has been very sensitive to the needs of mathematicians working in developing and economically disadvantaged countries In order to consolidate the efforts of the IMU to help such mathematicians through its different agencies, it established in 2011 the Commission for Developing Countries (CDC) which is responsible for all IMU initiatives to help mathematicians from developing countries One of the major problems faced by mathematicians in the so-called third world is that of isolation On one hand their countries cannot afford to provide them with adequate financial support to have basic facilities like well equipped libraries However, with the advent of the internet, this problem is mitigated to a certain extent On the other hand, these mathematicians work in understaffed mathematics departments and so are subjected to very heavy teaching loads, thereby having very little time for pursuing their individual research interests Further, each mathematician is often the only person working in his/her research area and so (s)he cannot have useful and stimulating mathematical discussions which are essential to generate new ideas in research Such mathematicians, therefore, need time off from their usual duties to recharge their intellectual batteries and to initiate collaborative research with mathematicians working in centres of excellence elsewhere in the world under favourable working conditions The CDC helps mathematicians from developing or economically disadvantaged countries to overcome this problem by funding their travel to a centre of excellence for collaborative research	10/31/2015, 10/31/2016 8/1/2017	No	N/A	N/A
International Mathematical Union Secretariat, Markgrafenstr 32 D-10117 Berlin, Germany	25,000	9/1/2015	10,968	The International Mathematical Union (IMU) has been very sensitive to the needs of mathematicians working in developing and economically disadvantaged countries In order to consolidate the efforts of the IMU to help such mathematicians through its different agencies, it established in 2011 the Commission for Developing Countries (CDC) which is responsible for all IMU initiatives to help mathematicians from developing countries One of the major problems faced by mathematicians in the so-called third world is that of isolation On one hand their countries cannot afford to provide them with adequate financial support to have basic facilities like well equipped libraries However, with the advent of the internet, this problem is mitigated to a certain extent On the other hand, these mathematicians work in understaffed mathematics departments and so are subjected to very heavy teaching loads, thereby having very little time for pursuing their individual research interests Further, each mathematician is often the only person working in his/her research area and so (s)he cannot have useful and stimulating mathematical discussions which are essential to generate new ideas in research Such mathematicians, therefore, need time off from their usual duties to recharge their intellectual batteries and to initiate collaborative research with mathematicians working in centres of excellence elsewhere in the world under favourable working conditions The CDC helps mathematicians from developing or economically disadvantaged countries to overcome this problem by funding their travel to a centre of excellence for collaborative research	10/31/2016 8/1/2017	No	N/A	N/A
Isaac Newton Institute for Mathmatical Sciences 20 Clarkson Road Cambridge, United Kingdom CB3 0EH	150,000	2/25/2015	150,000	(MPS-Targeted) Simons Fellowship Program	5/31/2016 6/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Isaac Newton Institute for Mathmatical Sciences 20 Clarkson Road Cambridge, United Kingdom CB3 0EH	150,000	2/26/2016	78,136	(MPS-Targeted) Simons Fellowship Program	6/1/2017	No	N/A	N/A
Istituto Nazionale di Fisica Nucleare Via Enrico Fermi Frascati Rome, Italy 40-00044	67,870	9/25/2015	67,870	The Galileo Galilei Institute for Theoretical Physics (GGI) would like to establish a “Simons fellowship” program supporting extended visits of eminent scientists at the Institute. Each visit would be associated with a GGI program and would span its entire duration (8 weeks on average). The GGI envisage two fellowships for each program, i.e. six fellowships per year. Interested candidates will apply to the Scientific Board of the Institute, who will be in charge of awarding the grants. In the context of GGI activities these long-term visits will provide an invaluable tool to enrich and stimulate the dynamics of each program. Moreover GGI would use part of this grant to increase the participation of Ph.D. students, Post-Docs and young researchers in the training weeks associated with the programs.	9/1/2016 9/1/2017	No	N/A	N/A
Istituto Nazionale di Fisica Nucleare Via Enrico Fermi Frascati Rome, Italy 40-00044	135,740	3/29/2016 9/28/2016	80,284	The Galileo Galilei Institute for Theoretical Physics (GGI) would like to establish a “Simons fellowship” program supporting extended visits of eminent scientists at the Institute. Each visit would be associated with a GGI program and would span its entire duration (8 weeks on average). The GGI envisage two fellowships for each program, i.e. six fellowships per year. Interested candidates will apply to the Scientific Board of the Institute, who will be in charge of awarding the grants. In the context of GGI activities these long-term visits will provide an invaluable tool to enrich and stimulate the dynamics of each program. Moreover GGI would use part of this grant to increase the participation of Ph.D. students, Post-Docs and young researchers in the training weeks associated with the programs.	9/1/2017	No	N/A	N/A
King's College London MRC Centre for Developmental Neurobiology 4th Floor, New Hunt's House Guy's Campus London SE1 1UL	79,841	9/1/2014	79,659	Contactin-associated protein-like 2 (CASPR2, encoded by the gene CNTNAP2) is a cell adhesion molecule that is essential for proper neuronal function. Common and rare genetic variations in CNTNAP2 are associated with an increased risk of autism spectrum disorders. A recessive mutation in exon 22 of the gene causes a syndromic form of autism called cortical dysplasia-focal epilepsy syndrome (CDFE). CDFE is a common cause of intractable epilepsy in children, and the cerebral cortex of individuals with CDFE often shows a disorganized structure. Elior Peles, in collaboration with Oscar Marin and Daniel Geschwind, is aiming to characterize two new CNTNAP2 mouse models. One model bears a mutation in exon 22, similar to the human mutation. In the second model, a marker gene replaces the first exon of CNTNAP2. The presence of the marker should allow the researchers to better understand the cellular changes that occur in mice with CNTNAP2 mutations. Peles's lab has also generated model mice that lack CASPR2 completely. The group plans to obtain detailed anatomical, developmental and behavioral data from mice with the exon 22 mutation, and then compare the data with those obtained from mice lacking CASPR2. This comparison could reveal underlying mechanisms relevant to autism. The researchers also plan to characterize the basic electrophysiological properties of microcircuits in the cerebral cortex of the model mice. Finally, they plan to examine the effects of several drugs that may modify social behavior in these newly generated model mice.	11/1/2015, 5/1/2016	No	N/A	N/A
King's College London MRC Centre for Developmental Neurobiology 4th Floor, New Hunt's House Guy's Campus London SE1 1UL	300,000	5/1/2014, 9/1/2014	300,000	Simons Collaboration on the Many Electron Problem - Director, Real Materials Group	4/30/2015 5/1/2017	No	N/A	N/A
King's College London MRC Centre for Developmental Neurobiology 4th Floor, New Hunt's House Guy's Campus London SE1 1UL	300,000	2/24/2015, 8/19/2015	300,000	Simons Collaboration on the Many Electron Problem - Director, Real Materials Group	5/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
King's College London MRC Centre for Developmental Neurobiology 4th Floor, New Hunt's House Guy's Campus London SE1 1UL	150,000	5/1/2014, 9/1/2014	150,000	Simons Collaboration on the Many Electron Problem - PI, Real Materials Group	4/30/2015 5/1/2017	No	N/A	N/A
King's College London MRC Centre for Developmental Neurobiology 4th Floor, New Hunt's House Guy's Campus London SE1 1UL	150,000	2/24/2015, 8/19/2015	150,000	Simons Collaboration on the Many Electron Problem - PI, Real Materials Group	5/1/2017	No	N/A	N/A
King's College London The Strand London, United Kingdom WC2R 2LS	62,500	11/30/2015	62,500	In this project researchers plan to study the function of the CHD8 gene in brain development CHD8, which encodes a protein that changes the structure of chromatin in the cell nucleus, has emerged as one of the most significant autism-associated genes of late In vitro studies — studies conducted in cells in a laboratory dish — have suggested that CHD8 might function as a regulator of the developmentally important WNT and Pten signaling pathways Tight control of both these pathways is critical for normal brain development and mutations that affect their activity have been associated strongly with autism It is therefore important to test whether CHD8 functions as a regulator of these pathways during brain development	11/1/2016	No	N/A	N/A
King's College London The Strand London, United Kingdom WC2R 2LS	62,500	5/25/2016	60,172	In this project researchers plan to study the function of the CHD8 gene in brain development CHD8, which encodes a protein that changes the structure of chromatin in the cell nucleus, has emerged as one of the most significant autism-associated genes of late In vitro studies — studies conducted in cells in a laboratory dish — have suggested that CHD8 might function as a regulator of the developmentally important WNT and Pten signaling pathways Tight control of both these pathways is critical for normal brain development and mutations that affect their activity have been associated strongly with autism It is therefore important to test whether CHD8 functions as a regulator of these pathways during brain development	11/1/2016	No	N/A	N/A
King's College London The Strand London, WC2R 2LS	300,000	2/26/2016 8/26/2016	182,979	Simons Collaboration on the Many Electron Problem - Director, Real Materials Group	5/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
King's College London The Strand London, WC2R 2LS	150,000	2/26/2016 8/26/2016	10,645	Simons Collaboration on the Many Electron Problem - PI, Real Materials Group	5/1/2017	No	N/A	N/A
Købehavns Universitet (University of Copenhagen) Nørregade Copenhagen, DK1017	75,000	9/28/2016	75,000	Niels Bohr International Academy	9/1/2017	No	N/A	N/A
Kyoto University Yoshida-Honmachi Kyoto, Japan 606-8501	110,000	11/30/2015	71,677	It from Qubit Quantum Fields, Gravity, and Information	11/1/2016	No	N/A	N/A
Kyoto University Yoshida-Honmachi Kyoto, Japan 606-8501	110,000	11/30/2016		It from Qubit Quantum Fields, Gravity, and Information	11/1/2017	No	N/A	N/A
Le Centre National de la Recherche Scientifique CNRS 16 rue Pierre et Marie Curie Paris, 75005	80,250	8/31/2016	11,968	Cracking the glass problem - The endeavor to understand the glassy state of matter forces us to consider deeply the seemingly simple question what is a solid Glass – the prototypic and ubiquitous amorphous solid – inhabits an incredibly ramified and complex energy landscape in which systems are often stranded far from equilibrium	7/1/2017	No	N/A	N/A
Le Centre National de la Recherche Scientifique CNRS 16 rue Pierre et Marie Curie Paris, 75005	75,574	8/26/2016	36,940	Cracking the glass problem	7/1/2017	No	N/A	N/A
Le Centre National de la Recherche Scientifique CNRS 16 rue Pierre et Marie Curie Paris, 75005	51,120	8/26/2016	11,268	Cracking the glass problem	7/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Le Centre National de la Recherche Scientifique CNRS 16 rue Pierre et Marie Curie Paris, 75005	71,910	8/26/2016	71,792	Cracking the glass problem	7/1/2017	No	N/A	N/A
Ludwig Maximilians Universitat Munchen Lehrstuhl fur Stoffwechselbiochemie, Ludwig-Maximilians Universitat Munchen & Deutsches Zentrum fur Neurodegenerative Erkrankungen (DZNE) e V Feodor-Lynen Strasse 17 Munchen, 81377	23,700	7/22/2016	23,700	Life Sciences - Simons Collaboration on the Origins of Life Equipment Award - Purchase of Laser for Chirality Microscope In our proposal, we suggested with a single 213 nm laser to replace the too dim deuterium lamp to image the circular dichroism of e.g. crystalline samples directly. The horizontally polarized laser light passes through a quarter wave plate to create circular polarized light (CPL). This will then be sent through a sample and detected by a CCD camera. New in the setup is that we use now a photoelastic modulator. Triggered by discussions with Uwe Meierhenrich, we replaced the original Alphas Quarter Wave Plate by a Hinds Instrument Photoelastic Modulator (PEM) I/FSS0. This eliminated the need to rotate or move the optical elements in order to change the rotation of the CPL. Additional alignments or mechanical movements are not necessary any more. The PEM is oscillating at a frequency of 50 kHz, which is used as a time base to trigger the 1 kHz pulsed laser. Both instruments are therefore phase-locked through a LabView computer program. The advantage of this modified setup is that no optics other than the PEM is between the laser and the sample, yielding a very simple and hopefully artefact-free optical setup. Very likely, our previous approach would not have worked since drift and long measurement times and most importantly the misalignment of the optical pathway after rotation of the polarizers already posed large problems without the laser. Now we should be able to measure chirality in real time, up to about 100Hz. This is very useful since it is likely that we will have to average a number of our 12-bit pictures to obtain enough signal to noise ratio. Still, fast movies of the chiral crystal growth or chiral accumulation in a trap are to be expected.	4/1/2017	No	N/A	N/A
Ludwig-Maximilians-Universitaet Geschwister-Scholl-Platz 1 80539 Munich, Germany	376,600	3/29/2016 9/28/2016	366,497	The University aims to create experimental living systems bottom up in the lab. It is the hope of the University to implement Darwinian evolution with very basic building blocks driven by nonequilibrium conditions. As a result, researchers hope to overcome central logical hurdles in the present understanding of the origins of life. Researchers will start from prebiotically plausible conditions with low concentrations of simple molecular building blocks. Various microscopic nonequilibria will be explored. In the past, researchers focused on temperature differences across pores of rock. While a temperature gradient is a very basic non-equilibrium condition, it can tackle a number of central problems. It has been shown that a thermal gradient can - trigger exponential replication by convection, separating genetic molecules - exponentially accumulate even small molecules towards the pore bottom - accumulate longer and more complex molecular assemblies exponentially better - escalate polymerization towards long oligonucleotides - at the same time accumulate and replicate DNA with the help of an enzyme The challenges are multifold. For non-equilibrium conditions to be fast and effective, they have to be implemented at the size scales of life. In this micrometer regime, analytical methods become demanding when experimental volumes are limited to the low nanoliter range. Because of good experiences with molecular non-equilibrium systems and their novelty in experimental origin of life scenarios, this route less traveled should be a rewarding undertaking.	9/1/2017	No	N/A	N/A
Mathematical Research Institute Oberwolfach Schwarzwaldstr. 9-11 Oberwolfach-Walke, Germany 77709	135,000	1/1/2015	135,000	(MPS-Targeted) Oberwolfach Simons Visiting Professors Program	2/29/2016 2/28/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Mathematical Research Insitute Oberwolfach Schwarzwaldstr 9-11 Oberwolfach-Walke, Germany 77709	135,000	1/1/2016	78,789	(MPS-Targeted) Oberwolfach Simons Visiting Professors Program	2/29/2016 2/28/2017	No	N/A	N/A
McGill University 845 Sherbrooke St West James Admin Bldg ,2nd Floor Montreal,Québec H3A 0G4	95,520	11/30/2016	95,520	Primary Location University of California, Los Angies Collaborators Stanley Osher (Scientific Computing and Image Processing) Inwon Kim (Analysis of PDEs, Free Boundary Problems) Scientific Objective Application of algorithm for approximate convex hull in high dimensions to the hyperspectral imaging problem (with Osher) Application of numerical methods for free boundary problems to free boundary problems in aggregate motions (with Kim) Secondary Location University of Texas, at Austin Collaborators Bjorn Engquist (Scientific Computing and Numerical PDEs) Richard Tsai (Scientific Computing and Numerical PDEs) Luis Caffarelli (PDE Analysis) Alessio Figalli (PDE Analysis) Kui Ren (PDE Analysis) Scientific Objective Development of Algorithms for Optimal Transportation and nonlocal PDEs/Fractional Laplacian (Caffarelli/Figalli) Application of approximate convex hull algorithms to hyperspectral imaging problems (Engquist/Tsai) Application of numerical method for degenerate elliptic PDEs to ultrasound imaging (Ren) Secondary Location University of Chicago Collaborators Panagiotakis Souganidis (PDE Analysis, Homogenization) Luis Silvestre (PDE Analysis, Non-local PDEs) L Ridgway Scott (Numerical Analysis, Scientific Computing)	11/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
McGill University 845 Sherbrooke St West James Admin Bldg ,2nd Floor Montreal,Québec H3A 0G4, Canada	132,000	1/27/2016 7/22/2016	13,208	Simons Investigator in the Mathematical Modeling of Living Systems	10/1/2017	No	N/A	N/A
McGill University Health Centre - Montreal Children's Hospital 2300 Tupper Street, Suite C-244 Montreal, Quebec Canada H2H 1P3	10,000	6/30/2015	10,000	(SFARI-SSC) Simons Simplex Collection Support Grant	6/1/2016	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
McGill University Health Centre - Montreal Children's Hospital 2300 Tupper Street, Suite C-244 Montreal, Quebec Canada H2H 1P3	10,000	7/22/2016	10,000	(SFARI-SSC) Simons Simplex Collection Support Grant	6/1/2017	No	N/A	N/A
McGill University 845 Sherbrooke St West James Admin Bldg ,2nd Floor Montreal, Quebec Canada H3A 0G4	110,356	9/30/2015	110,356	The first goal is to continue to develop the ``Euler systems of Garret Rankin Selberg type " This has helped to prove many new cases of the Birch and Swinnerton-Dyer conjecture in analytic rank zero, notably for Mordell-Weil groups over ring class fields of real quadratic fields The next step is to obtain similar results in analytic rank one and two, relating the non-vanishing of the Stark-Heegner points (conjecturally) defined over class fields of real quadratic fields Another goal is to explore certain distinguished classes in the Selmer groups of elliptic curves, obtained by deforming the images of Beilinson-Flach elements and Gross-Kudla-Schoen diagonal cycles under a p-adic etale regulator or Abel-Jacobi map These classes are called "generalised Kato classes", and one of the surprises of the setting considered is that these canonical elements in the Selmer group can be non-zero in rank two situations where the associated primitive L-function admits a double zero This offers the prospect of extending some of the results of Kolyvagin and Kato on the Birch and Swinnerton-Dyer conjecture to the setting of elliptic curves of rank two	9/1/2016	No	N/A	N/A
McGill University 845 Sherbrooke St West James Admin Bldg ,2nd Floor Montreal, Quebec Canada H3A 0G4	119,506	11/30/2015	119,506	The main goals are to develop a new approach to superstring cosmology which respects the basic T-duality symmetry of string theory, to study a new approach to holographic cosmology, and to constrain particle physics models beyond the Standard Model by searching for observational signatures of the cosmic strings which these models may contain	11/1/2016	No	N/A	N/A
McGill University 845 Sherbrooke St West James Admin Bldg ,2nd Floor Montreal, Quebec Canada H3A 0G4	110,000	11/30/2015	33,026	It from Qubit Quantum Fields, Gravity, and Information	11/1/2016	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
McGill University Rutherford Physics Building 3600 Rue University Montreal, QC H3A 2T8, Canada	66,000	8/1/2014	66,000	Simons Investigator in the Mathematical Modeling of Living Systems	9/30/2015, 10/1/2016 10/1/2017	No	N/A	N/A
McGill University Rutherford Physics Building 3600 Rue University Montreal, QC H3A 2T8, Canada	132,000	2/1/2015, 7/24/2015	132,000	Simons Investigator in the Mathematical Modeling of Living Systems	10/1/2016 10/1/2017	No	N/A	N/A
McMaster University 1280 Main Street West Hamilton, Ontario L8S 4L8	93,720	9/28/2016	93,720	This is a proposal to extend my sabbatical leave from McMaster University, which would otherwise end in the summer of 2016, through the fall term to the end of 2016 During this time, I will be a General Member of the Kavli Institute for Theoretical Physics (KITP) at the University of California, Santa Barbara, conducting research in the general area of unconventional and topological superconductors This will also allow me to attend and participate in two KITP programs, “Synthetic Quantum Matter” and “Symmetry, Topology, and Quantum Phases of Matter From Tensor Networks to Physical Realizations,” both of which are relevant to my research and are scheduled for fall 2016 During this time, my research will focus on three topics, two in the general area of chiral superconductors which are of great interest in part because of their potential to support Majorana fermions The first is understanding the physical properties of Sr2RuO4 which is thought to be a chiral p-wave superconductor below about 1.5K Here, my overall goal is to determine if the main body of experiments on the superconducting state of Sr2RuO4 can be reconciled with realistic models of chiral p-wave order I will primarily focus on reconciling the absence of observable edge currents with other experimental signatures of broken time reversal symmetry, and on the effect of intermediate strength spin-orbit coupling on the superconducting order parameter and various properties of the superconducting state The second topic is to study the normal and superconducting states, as well as the polar Kerr effect in the heavy fermion superconductor, UPt3, which is thought to be a chiral f-wave superconductor below 0.5K I will work with Gertrud Zwicknagl (Braunschweig) and John Berlinsky (KITP) to develop a simple model of the low temperature normal state and the superconducting state, assuming multi-band chiral f-wave order This will then be used to calculate the polar Kerr effect, where we have previously demonstrated that the Kerr effect is, in general, non-zero for a clean multi-band chiral superconductor The third topic concerns the area of high temperature superconducting and developing a better understanding of the exotic pseudogap phase Here, I plan to extend earlier work on quantum oscillations in a pair density wave or striped superconducting state, which might occur in the cuprates, particularly in the pseudogap state in high magnetic fields Recent work by Kivelson and collaborators on quantum oscillations in the case of incommensurate charge density wave order suggests an avenue for extending our early work and including the effect of vortices I plan to pursue this, possibly in collaboration with Yi Zhang (Stanford) As part of this study, I will look at how a magnetic field may stabilize the pair density wave or striped superconducting state	3/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Medical Research Council Laboratory of Molecular Biology Francis Crick Avenue Cambridge Biomedical Campus Cambridge, CB2 0QH	500,000	2/26/2016 12/19/2016 12/19/2016	202,743	It is thought that during the origin of life on Earth there was a phase when the nucleic acid RNA served the dual roles of information storage and catalysis The 'RNA world hypothesis' is strongly supported by much recent biological work, but until recent work making ribonucleotides, there had been little by way of chemical explanation as to how RNA might have been generated prebiotically on the early Earth So far so good, but quite a bit remains to be done if RNA itself is to be made, and the current proposal seeks funds to finish the job In particular, the researchers want to i) find a route to activated purine nucleotides - this can potentially be done from a by-product of the pyrimidine nucleotide synthesis, ii) sort out the chirality issue (certain molecules exist in left and right handed forms, and RNA is a polymer of right handed nucleotides) - this can potentially be done using a crystallisation 'trick' followed by a phosphate-catalysed reaction, iii) find a route to glyceraldehyde which is a key intermediate in the synthesis, but which is not considered to have been a prebiotic feedstock molecule, iv) optimise conditions for stringing the activated nucleotides together to generate RNA	8/1/2017	No	N/A	N/A
Medical Research Council Laboratory of Molecular Biology Francis Crick Avenue Cambridge Biomedical Campus Cambridge, CB2 0QH	85,000	2/26/2016	78,480	One of the fundamental traits of life is self replication Therefore the emergence of self-replication is closely linked to life's origin itself Several strands of compelling evidence strongly suggest that current biology, which relies on DNA for information storage and proteins for catalysis, was preceded by a primordial biology that instead relied on DNA close chemical cousin RNA for both heredity and metabolism It is therefore widely believed that this ancestral biology, also referred to as the 'RNA world' began with an RNA molecule that acquired a capacity for self-replication and mutation and hence evolution towards ever more efficient self-replication Unfortunately, this primordial replicase appears to have been lost However, modern analogues can be reconstructed and the properties of these molecular 'Dopplegangers' can be studied in order to better understand life's first genetic system Furthermore, using methods of evolution in the laboratory tje researchers can retrace the first steps this ancestral molecule must have taken and ultimately reconstruct an RNA world in the test-tube	1/1/2017	No	N/A	N/A
Medical Research Council Library of Molecular Biology Francis Crick Avenue Cambridge Biomedical Campus Cambridge, United Kingdom CB2 0QH	81,000	1/28/2015	76,153	One of the fundamental traits of life is self replication Therefore the emergence of self-replication is closely linked to life's origin itself Several strands of compelling evidence strongly suggest that current biology, which relies on DNA for information storage and proteins for catalysis, was preceded by a primordial biology that instead relied on DNA close chemical cousin RNA for both heredity and metabolism It is therefore widely believed that this ancestral biology, also referred to as the 'RNA world' began with an RNA molecule that acquired a capacity for self-replication and mutation and hence evolution towards ever more efficient self-replication Unfortunately, this primordial replicase appears to have been lost However, modern analogues can be reconstructed and the properties of these molecular 'Dopplegangers' can be studied in order to better understand life's first genetic system Furthermore, using methods of evolution in the laboratory tje researchers can retrace the first steps this ancestral molecule must have taken and ultimately reconstruct an RNA world in the test-tube	11/24/2015 1/1/2016	No	N/A	N/A
Medical Research Council- NIMR Francis Crick Avenue Cambridge Biomedical Campus Cambridge CB2 0QH, United Kingdom	200,000	8/30/2014	200,000	It is thought that during the origin of life on Earth there was a phase when the nucleic acid RNA served the dual roles of information storage and catalysis The 'RNA world hypothesis' is strongly supported by much recent biological work, but until recent work making ribonucleotides, there had been little by way of chemical explanation as to how RNA might have been generated prebiotically on the early Earth So far so good, but quite a bit remains to be done if RNA itself is to be made, and the current proposal seeks funds to finish the job In particular, the researchers want to i) find a route to activated purine nucleotides - this can potentially be done from a by-product of the pyrimidine nucleotide synthesis, ii) sort out the chirality issue (certain molecules exist in left and right handed forms, and RNA is a polymer of right handed nucleotides) - this can potentially be done using a crystallisation 'trick' followed by a phosphate-catalysed reaction, iii) find a route to glyceraldehyde which is a key intermediate in the synthesis, but which is not considered to have been a prebiotic feedstock molecule, iv) optimise conditions for stringing the activated nucleotides together to generate RNA	8/1/2015, 8/1/2016	No	N/A	N/A
Medical Research Council- NIMR Francis Crick Avenue Cambridge Biomedical Campus Cambridge CB2 0QH, United Kingdom	400,000	2/24/2015, 8/19/2015	400,000	It is thought that during the origin of life on Earth there was a phase when the nucleic acid RNA served the dual roles of information storage and catalysis The 'RNA world hypothesis' is strongly supported by much recent biological work, but until recent work making ribonucleotides, there had been little by way of chemical explanation as to how RNA might have been generated prebiotically on the early Earth So far so good, but quite a bit remains to be done if RNA itself is to be made, and the current proposal seeks funds to finish the job In particular, the researchers want to i) find a route to activated purine nucleotides - this can potentially be done from a by-product of the pyrimidine nucleotide synthesis, ii) sort out the chirality issue (certain molecules exist in left and right handed forms, and RNA is a polymer of right handed nucleotides) - this can potentially be done using a crystallisation 'trick' followed by a phosphate-catalysed reaction, iii) find a route to glyceraldehyde which is a key intermediate in the synthesis, but which is not considered to have been a prebiotic feedstock molecule, iv) optimise conditions for stringing the activated nucleotides together to generate RNA	8/1/2016 8/1/2017	No	N/A	N/A
Murdoch Childrens Research Institute Royal Children's Hospital Flemington Road Parkville, Australia 3052	99,684	5/30/2015	99,684	The Institute has a unique opportunity to conduct a large-scale genetics-first cognitive evaluation of children with 16p11 2 deletions and duplications The focus will be on speech production, an area where the Institute – and others – have previously observed deficits in the deletion cases (e g , Fedorenko, Morgan et al , submitted) The study will include an extensive battery of standardized speech tasks, as well as additional language and cognitive assessments to help interpret the nature and specificity of the speech production deficits Building on prior work, this project will a) help address some limitations of past studies (see details below), b) delve deeper into the nature of the speech production deficits in 16p11 2 deletion cases, and c) provide a detailed characterization of 16p11 2 duplication cases, i) whose cognitive abilities are quite poorly characterized to date, and ii) who provide an important comparison group for the 16p11 2 deletion cases	9/1/2016	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
National Centre for Biological Sciences GKVK Post, Bellary Road Bangalore 560065, India	200,000	6/25/2014 12/22/2014	200,000	To establish a Centre dedicated to the theoretical study of molecules, cells, and organisms as ‘living machines’ imperfectly optimized products of natural selection, which consume energy to achieve specific goals The Centre will be embedded within, and intimately connected to, the broader NCBS experimental research environment It will initially bring together existing research groups under a common theme, and will be expanded through the aggressive recruitment of new permanent and visiting faculty The Centre will institute summer schools for undergraduates, to expose a new generation of students from mathematics, physical sciences and engineering to challenging problems in modern biology Taking advantage of NCBS’s excellent administrative infrastructure and research environment, the Centre aims to create a new global benchmark for experiment-theory collaborations	10/31/2015, 8/31/2016	No	N/A	N/A
National Centre for Biological Sciences GKVK Post, Bellary Road Bangalore 560065, India	100,000	6/12/2015	100,000	To establish a Centre dedicated to the theoretical study of molecules, cells, and organisms as ‘living machines’ imperfectly optimized products of natural selection, which consume energy to achieve specific goals The Centre will be embedded within, and intimately connected to, the broader NCBS experimental research environment It will initially bring together existing research groups under a common theme, and will be expanded through the aggressive recruitment of new permanent and visiting faculty The Centre will institute summer schools for undergraduates, to expose a new generation of students from mathematics, physical sciences and engineering to challenging problems in modern biology Taking advantage of NCBS’s excellent administrative infrastructure and research environment, the Centre aims to create a new global benchmark for experiment-theory collaborations	10/31/2015 8/31/2016 9/1/2017	No	N/A	N/A
National Centre for Biological Sciences GKVK Post, Bellary Road Bangalore 560065, India	300,000	1/27/2016 6/22/2016 12/19/2016	296,155	To establish a Centre dedicated to the theoretical study of molecules, cells, and organisms as ‘living machines’ imperfectly optimized products of natural selection, which consume energy to achieve specific goals The Centre will be embedded within, and intimately connected to, the broader NCBS experimental research environment It will initially bring together existing research groups under a common theme, and will be expanded through the aggressive recruitment of new permanent and visiting faculty The Centre will institute summer schools for undergraduates, to expose a new generation of students from mathematics, physical sciences and engineering to challenging problems in modern biology Taking advantage of NCBS’s excellent administrative infrastructure and research environment, the Centre aims to create a new global benchmark for experiment-theory collaborations	9/1/2017	No	N/A	N/A
Perimeter Institute 31 Caroline St N Waterloo, Ontario N2L 2Y5	120,000	11/30/2016		Simons Collaboration on the Non-perturbative Bootstrap	11/1/2017	No	N/A	N/A
Perimeter Institute for Theoretical Physics 31 Caroline Street North Waterloo, ON N2L 2Y5	167,000	5/1/2014, 9/1/2014	167,000	Simons Collaboration on the Many Electron Problem - PI, Tensor Networks Group	4/30/2015 5/1/2017	No	N/A	N/A
Perimeter Institute for Theoretical Physics 31 Caroline Street North Waterloo, ON N2L 2Y5	167,000	2/24/2015, 8/19/2015	167,000	Simons Collaboration on the Many Electron Problem - PI, Tensor Networks Group	5/1/2017	No	N/A	N/A
Perimeter Institute for Theoretical Physics 31 Caroline Street North Waterloo, ON N2L 2Y5	167,000	2/26/2016 8/26/2016	92,860	Simons Collaboration on the Many Electron Problem - PI, Tensor Networks Group	5/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Perimeter Institute 31 Caroline St N Waterloo, Ontario Canada N2L 2Y5	372,003	11/30/2015	372,003	It from Qubit Quantum Fields, Gravity, and Information	11/1/2016	No	N/A	N/A
Perimeter Institute 31 Caroline St N Waterloo, Ontario Canada N2L 2Y5	110,000	11/30/2016	3,675	It from Qubit Quantum Fields, Gravity, and Information	11/1/2016	No	N/A	N/A
Research Center of Centre hospitalier de l'Université de Montréal 900, rue St-Denis Tour Viger, Office R03 408 Montreal, Quebec, Canada H2X 0A9	59,834	5/30/2014	59,834	Autism spectrum disorders (ASDs) comprise a range of developmental disorders resulting in abnormal social behaviour, difficulty communicating, and stereotyped & repetitive behaviour Recent scientific advances have begun to decipher the genetic mechanisms driving ASDs With these discoveries comes the possibility of developing new therapeutic approaches Since many of the genes linked to ASDs are conserved throughout evolution the researchers propose to use simple genetic models of ASDs to identify new therapeutics The simple animal model C elegans has homologues of many genes linked to ASDs, and these mutant strains show neuronal dysfunction leading to movement problems The researchers will test a library of FDA-approved drugs to find molecules that restore normal neuronal behaviors in C elegans models for ASDs These molecules may have clinical relevance and could aid further drug discovery and development for ASD patients	7/1/2015, 1/1/2016	No	N/A	N/A
Romanian Institute of Science and Technology Ciresilor 29, Ap 4 Cluj-Napoca, 400487	14,000	8/30/2016	14,000	Life Sciences-Simons Collaboration on the Global Brain Conference Grants - Transylvanian Experimental Neuroscience Summer School (TENSS) The main objective of TENSS is to provide participants top-level, hands-on training in experimental techniques used in neuroscience, from optical all the way to electro-physiological methods To the best of our knowledge the opportunity for such training is scarce and is covered only in a few places in the world, such as Cold Spring Harbor and Woods Hole, in the USA or Plymouth in UK and the Cajal courses in Bordeaux and Lisbon, Europe A second objective of TENSS is to attract a large number of top-level scientists from all over the world, who can provide theoretical lectures to participants and can interact with participants, among themselves, and possibly with local scientists based in Romania, giving rise to scientific debates of the highest quality Finally, TENSS aims to bring more expertise and world-wide visibility to neuroscientific research in Eastern Europe In the past four years, a significant number of students from the former Eastern Bloc have received training via TENSS	10/1/2016	No	N/A	N/A
Royal Swedish Academy of Sciences Lilla Frescativagen 4A Stockholm, 10405	100,000	10/26/2016	38,611	Support for two larger conferences at Institut Mittag-Leffler	5/29/2017	No	N/A	N/A
Sapienza University of Rome Corso della Repubblica, 79 Latina, 04100	85,995	7/22/2016	34,439	Cracking the glass problem	7/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences 320 Yueyang Road Shanghai, 200031	75,000	7/22/2016	67,362	Survival in a dynamic environment requires forming and maintaining decisions based on sensory evidence that may not be available at the time of behavioral execution How the brain bridges past events with future motor plans has been studied in animals using memory-guided perceptual decision tasks Multiple brain regions have been implicated in this paradigm In particular, the primate and rodent secondary motor cortex (M2) is suggested as the cortical substrate for decision formation and maintenance Two important questions remain to be addressed for a mechanistic understanding of M2’s contribution to motor planning 1) how heterogeneous M2 responses map to behavior, 2) how M2 interacts with interconnected brain areas to form and maintain decisions on the circuit level Dissecting dynamics of M2 neurons based on where they project to provides a powerful approach to investigate both the heterogeneity within M2 and the interaction between M2 and other interconnected areas One important pathway consists of dense projections from M2 to the midbrain superior colliculus (SC), and from SC back to M2 through the mediodorsal thalamus (MD) A recent memory-guided study that combines computational modeling and inactivations in the rat suggest that neurons in M2 and SC are equivalent members of a distributed circuit underlying decision formation and maintenance This idea challenges the traditional view where top-down cortical control modulates downstream motor areas such as the SC The new model predicts that the flow of decision information from SC back to cortex should be as important as cortical projections to the SC A direct test of this hypothesis requires recording M2 neural activity while specifically perturbing the SC->MD->M2 pathway, and has not yet been done To determine the circuit mechanisms of decision making, I will dissect the M2-SC pathway during a memory-guided auditory decision task in head-fixed mice using projection-based calcium imaging and optogenetic perturbations First, I will characterize the causal contributions of M2 and SC in this behavior (Aim 1) Secondly, I will conduct dendritic and somatic calcium imaging of M2 layer 5 neurons of separate projection pathways to compare the time course and duration of motor planning signals in subgroups of M2 neurons (Aim 2) Population-level analyses (decoding and PCA) will reveal the distinct computations performed by SC-projecting neurons versus other M2 neurons Finally, I will test whether M2 and SC neurons are equally critical components of a distributed circuit as opposed to a unidirectional M2-SC control model for decision making (Aim 3) This project aims at answering fundamental questions of decision making that are only possible to address with the recent innovation in recording techniques I believe that the dataset and theories generated from this project could provide key insights on how cortical and subcortical populations work together during decision making	7/1/2017	No	N/A	N/A
The Abdus Salam International Centre for Theoretical Physics Strada Costiera 11 Trieste, I - 34151	150,000	6/22/2016		The Abdus Salam International Centre for Theoretical Physics (ICTP) is the first and leading global institution for fundamental research and development, with special focus on developing countries It is run by scientists and operates under a tripartite agreement between the Italian government (main source of funding), UNESCO and IAEA For almost 50 years ICTP has supported tens of thousands of scientists from all corners of the world with training and research activities in Trieste and in developing countries At ICTP, visiting scientists can find some of the brightest minds in physics and mathematics ICTP scientists have played important roles by performing the highest level of scientific research while at the same time organising activities in developing countries as well as educating and working with the local scientists Over the years this has covered several generations of scientists that have used the ICTP programmes at different stages of their careers As such ICTP has been the world premier scientific institution for sustainable international cooperation	9/1/2017	No	N/A	N/A
The Abdus Salam International Centre for Theoretical Physics Strada Costiera 11 Trieste, I - 34151	50,000	1/27/2016	47,573	PhD Fellowships at ICTP	12/31/2016	No	N/A	N/A
The Abdus Salam International Centre for Theoretical Physics Strada Costiera 11 34151 Trieste, Italy	150,000	7/1/2014	150,000	The Abdus Salam International Centre for Theoretical Physics (ICTP) is the first and leading global institution for fundamental research and development, with special focus on developing countries It is run by scientists and operates under a tripartite agreement between the Italian government (main source of funding), UNESCO and IAEA For almost 50 years ICTP has supported tens of thousands of scientists from all corners of the world with training and research activities in Trieste and in developing countries At ICTP, visiting scientists can find some of the brightest minds in physics and mathematics ICTP scientists have played important roles by performing the highest level of scientific research while at the same time organising activities in developing countries as well as educating and working with the local scientists Over the years this has covered several generations of scientists that have used the ICTP programmes at different stages of their careers As such ICTP has been the world premier scientific institution for sustainable international cooperation	8/31/2015, 8/31/2016	No	N/A	N/A
The Abdus Salam International Centre for Theoretical Physics Strada Costiera 11 34151 Trieste, Italy	150,000	7/1/2015	146,047	The Abdus Salam International Centre for Theoretical Physics (ICTP) is the first and leading global institution for fundamental research and development, with special focus on developing countries It is run by scientists and operates under a tripartite agreement between the Italian government (main source of funding), UNESCO and IAEA For almost 50 years ICTP has supported tens of thousands of scientists from all corners of the world with training and research activities in Trieste and in developing countries At ICTP, visiting scientists can find some of the brightest minds in physics and mathematics ICTP scientists have played important roles by performing the highest level of scientific research while at the same time organising activities in developing countries as well as educating and working with the local scientists Over the years this has covered several generations of scientists that have used the ICTP programmes at different stages of their careers As such ICTP has been the world premier scientific institution for sustainable international cooperation	8/31/2016 9/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
The Governors of the University of Alberta Attn Research Accounts Receivables 3rd Floor Administration Building Edmonton, Alberta Canada T6G 2M7	52,224	11/30/2014	52,224	Children with the genetic disorder Prader-Willi syndrome have a very high rate of autism spectrum disorders, along with neonatal feeding difficulties, developmental delay, endocrine dysfunction and obesity Prader-Willi syndrome occurs in about 1 15,000 births and is caused by the deletion of part of a chromosome containing a group of genes One of these genes is called MAGEL2 Recently, a small number of children with autism were found to have genetic mutations that also inactivate MAGEL2 These children also have some but not all features of Prader-Willi syndrome, but do not have the other PWS genes inactivated The researchers know that the protein that the MAGEL2 gene produces is important for the modification and destruction of other proteins MAGEL2 does this by assisting other proteins, called ubiquitin ligases The researchers now want to find out more about the MAGEL2 protein, including what it normally does inside the cell, and what other proteins it interacts with Specifically, the researchers will test whether MAGEL2 interacts with ubiquitin ligases that are involved in other neurodevelopmental disorders including autism This study will place the MAGEL2 protein into the network of proteins and processes already implicated in autism	11/1/2015	No	N/A	N/A
The Governors of the University of Alberta Attn Research Accounts Receivables 3rd Floor Administration Building Edmonton, Alberta Canada T6G 2M7	105,977	5/22/2015, 11/20/2015	105,977	Children with the genetic disorder Prader-Willi syndrome have a very high rate of autism spectrum disorders, along with neonatal feeding difficulties, developmental delay, endocrine dysfunction and obesity Prader-Willi syndrome occurs in about 1 15,000 births and is caused by the deletion of part of a chromosome containing a group of genes One of these genes is called MAGEL2 Recently, a small number of children with autism were found to have genetic mutations that also inactivate MAGEL2 These children also have some but not all features of Prader-Willi syndrome, but do not have the other PWS genes inactivated The researchers know that the protein that the MAGEL2 gene produces is important for the modification and destruction of other proteins MAGEL2 does this by assisting other proteins, called ubiquitin ligases The researchers now want to find out more about the MAGEL2 protein, including what it normally does inside the cell, and what other proteins it interacts with Specifically, the researchers will test whether MAGEL2 interacts with ubiquitin ligases that are involved in other neurodevelopmental disorders including autism This study will place the MAGEL2 protein into the network of proteins and processes already implicated in autism	11/1/2015, 11/1/2016	No	N/A	N/A
The Governors of the University of Alberta Attn Research Accounts Receivables 3rd Floor Administration Building Edmonton, Alberta Canada T6G 2M7	53,753	5/25/2016	53,753	Children with the genetic disorder Prader-Willi syndrome have a very high rate of autism spectrum disorders, along with neonatal feeding difficulties, developmental delay, endocrine dysfunction and obesity Prader-Willi syndrome occurs in about 1 15,000 births and is caused by the deletion of part of a chromosome containing a group of genes One of these genes is called MAGEL2 Recently, a small number of children with autism were found to have genetic mutations that also inactivate MAGEL2 These children also have some but not all features of Prader-Willi syndrome, but do not have the other PWS genes inactivated The researchers know that the protein that the MAGEL2 gene produces is important for the modification and destruction of other proteins MAGEL2 does this by assisting other proteins, called ubiquitin ligases The researchers now want to find out more about the MAGEL2 protein, including what it normally does inside the cell, and what other proteins it interacts with Specifically, the researchers will test whether MAGEL2 interacts with ubiquitin ligases that are involved in other neurodevelopmental disorders including autism This study will place the MAGEL2 protein into the network of proteins and processes already implicated in autism	11/1/2016 11/1/2017	No	N/A	N/A
The Hospital for Sick Children 555 University Avenue Toronto, Ontario M5G 1X8, Canada	124,334	5/25/2016 11/30/2016	62,167	The last few years have seen exciting preclinical studies on potential treatments for individuals with autism As these treatments move into clinical trials, and as researchers are continuously searching for novel treatments, there is still no answer to a fundamental question at what point during the course of the disorder will treatment still be effective? Can a person treat an adult with autism and thereby ameliorate any debilitating symptoms? Or does one have to treat very early in life? There are initial indications from mouse studies that individuals can be treated later in life – and in this proposed project researchers will explore precisely that question Researchers will use mouse models carrying genetic mutations linked to autism, however, the malfunctioning gene can be made fully operational at the time of the researchers choosing This represents a model for what full treatment would look like Researchers will then use an array of brain imaging techniques to figure out what is rescued when the gene is turned back on, and what remains affected The results will provide key knowledge about the degree of recovery that can be expected from any future treatments in autism and provide both an expected timecourse and help inform the design of future human clinical trials	11/1/2016	No	N/A	N/A
The Hospital for Sick Children 555 University Avenue Toronto, Ontario Canada M5G 1X8	62,167	11/30/2015	62,167	The last few years have seen exciting preclinical studies on potential treatments for individuals with autism As these treatments move into clinical trials, and as researchers are continuously searching for novel treatments, there is still no answer to a fundamental question at what point during the course of the disorder will treatment still be effective? Can a person treat an adult with autism and thereby ameliorate any debilitating symptoms? Or does one have to treat very early in life? There are initial indications from mouse studies that individuals can be treated later in life – and in this proposed project researchers will explore precisely that question Researchers will use mouse models carrying genetic mutations linked to autism, however, the malfunctioning gene can be made fully operational at the time of the researchers choosing This represents a model for what full treatment would look like Researchers will then use an array of brain imaging techniques to figure out what is rescued when the gene is turned back on, and what remains affected The results will provide key knowledge about the degree of recovery that can be expected from any future treatments in autism and provide both an expected timecourse and help inform the design of future human clinical trials	11/1/2016	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN 1 College Green Dublin, 2	99,855	9/28/2016	77,532	Simons Foundation Visiting Professors and Scholars at the HMI Dublin	9/1/2017	No	N/A	N/A
The University of Cambridge Research Services Division 16 Mill Lane Cambridge, CB2 1SB United Kingdom	387,646	3/29/2016 9/28/2016		After two decades of discoveries, planets orbiting other stars (exoplanets) capture the interest of both scientists and the public with the haunting prospect of the search for life in the Universe Beyond the exploration of the architecture of planetary systems that have revealed surprising diversities, exoplanets bulk structure and atmosphere compositions holds key insights into their origins and history as well as long-term prospect to remotely question the potential habitability of these “other worlds” While its seems an extraordinary endeavor, only a handful of key ingredients are required to start characterizing an exoplanet in light of what has been learnt for Solar System planets with the prospect to look for bio- signature detections The fundamental quantity includes, the mass and the size of the planet, its temperature and some physical characteristic of major chemical ingredients present in its atmosphere These fundamental parameters allow for the gathering of insights on the composition, formation and evolution history of planets, eventually bringing new elements to question their habitability and the diversity of physical conditions where life may develop The special geometry of transiting planets provides researchers with an efficient and realistic way to probe their atmospheric structure During the secondary eclipse, the star occults the thermal emission from the planet, which can then be computed from comparison with the total flux out of transit With measurements at several wavelengths, researchers can map the spectral energy distribution The observation of the planet during the transit at many different wavelengths allows researchers to obtain its transmission spectra (stellar light going through the planet atmosphere) With these observations, atmosphere properties such as albedo, thermal redistribution efficiency temperature structure and composition of the atmosphere may be retrieved The nearest ultra-cool stars offers a unique opportunity to search for life signatures These stars, the most frequent in Earth’s Galaxy, are typically two times cooler than the Sun, and their sizes are similar to Jupiter The habitable zone region is 30-100 times closer than for the Sun and transit signature of an Earth size planet in orbit would be deep and short enough to be detected from the ground Researchers proposed a new facility (SPECULOOS) to carry out a survey of ultra cool stars almost uniformly spread in the whole sky The outcome of this survey will be a unique set of small “Earth like” transiting planet for which structure and physical conditions of their atmosphere can be characterised with a facility like JWST with the prospect to carry out genuine pioneering work in bio-signatures detections on planetary system different form the Earth's orbiting stars massively present in the Galaxy This initiative will hopefully provide researchers with new elements to make progress towards the understanding of the emergence of life from an astronomy perspective	9/1/2017	No	N/A	N/A
The University of Cambridge The Old Schools Trinity Lane Cambridge CB2 1TN, United Kingdom	200,280	9/30/2014	200,280	After two decades of discoveries, planets orbiting other stars (exoplanets) capture the interest of both scientists and the public with the haunting prospect of the search for life in the Universe Beyond the exploration of the architecture of planetary systems that have revealed surprising diversities, exoplanets bulk structure and atmosphere compositions holds key insights into their origins and history as well as long-term prospect to remotely question the potential habitability of these “other worlds” While its seems an extraordinary endeavor, only a handful of key ingredients are required to start characterizing an exoplanet in light of what has been learnt for Solar System planets with the prospect to look for bio- signature detections The fundamental quantity includes, the mass and the size of the planet, its temperature and some physical characteristic of major chemical ingredients present in its atmosphere These fundamental parameters allow for the gathering of insights on the composition, formation and evolution history of planets, eventually bringing new elements to question their habitability and the diversity of physical conditions where life may develop The special geometry of transiting planets provides researchers with an efficient and realistic way to probe their atmospheric structure During the secondary eclipse, the star occults the thermal emission from the planet, which can then be computed from comparison with the total flux out of transit With measurements at several wavelengths, researchers can map the spectral energy distribution The observation of the planet during the transit at many different wavelengths allows researchers to obtain its transmission spectra (stellar light going through the planet atmosphere) With these observations, atmosphere properties such as albedo, thermal redistribution efficiency temperature structure and composition of the atmosphere may be retrieved The nearest ultra-cool stars offers a unique opportunity to search for life signatures These stars, the most frequent in Earth's Galaxy, are typically two times cooler than the Sun, and their sizes are similar to Jupiter The habitable zone region is 30-100 times closer than for the Sun and transit signature of an Earth size planet in orbit would be deep and short enough to be detected from the ground Researchers proposed a new facility (SPECULOOS) to carry out a survey of ultra cool stars almost uniformly spread in the whole sky The outcome of this survey will be a unique set of small “Earth like” transiting planet for which structure and physical conditions of their atmosphere can be characterised with a facility like JWST with the prospect to carry out genuine pioneering work in bio-signatures detections on planetary system different form the Earth's orbiting stars massively present in the Galaxy This initiative will hopefully provide researchers with new elements to make progress towards the understanding of the emergence of life from an astronomy perspective	9/1/2015, 9/1/2016	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
The University of Cambridge The Old Schools Trinity Lane Cambridge CB2 1TN, United Kingdom	200,280	3/25/2015	80,335	After two decades of discoveries, planets orbiting other stars (exoplanets) capture the interest of both scientists and the public with the haunting prospect of the search for life in the Universe. Beyond the exploration of the architecture of planetary systems that have revealed surprising diversities, exoplanets bulk structure and atmosphere compositions holds key insights into their origins and history as well as long-term prospect to remotely question the potential habitability of these “other worlds”. While it seems an extraordinary endeavor, only a handful of key ingredients are required to start characterizing an exoplanet in light of what has been learnt for Solar System planets with the prospect to look for bio- signature detections. The fundamental quantity includes, the mass and the size of the planet, its temperature and some physical characteristic of major chemical ingredients present in its atmosphere. These fundamental parameters allow for the gathering of insights on the composition, formation and evolution history of planets, eventually bringing new elements to question their habitability and the diversity of physical conditions where life may develop. The special geometry of transiting planets provides researchers with an efficient and realistic way to probe their atmospheric structure. During the secondary eclipse, the star occults the thermal emission from the planet, which can then be computed from comparison with the total flux out of transit. With measurements at several wavelengths, researchers can map the spectral energy distribution. The observation of the planet during the transit at many different wavelengths allows researchers to obtain its transmission spectra (stellar light going through the planet atmosphere). With these observations, atmosphere properties such as albedo, thermal redistribution efficiency, temperature structure and composition of the atmosphere may be retrieved. The nearest ultra-cool stars offer a unique opportunity to search for life signatures. These stars, the most frequent in Earth's Galaxy, are typically two times cooler than the Sun, and their sizes are similar to Jupiter. The habitable zone region is 30-100 times closer than for the Sun and transit signature of an Earth size planet in orbit would be deep and short enough to be detected from the ground. Researchers proposed a new facility (SPECULOOS) to carry out a survey of ultra cool stars almost uniformly spread in the whole sky. The outcome of this survey will be a unique set of small “Earth like” transiting planets for which structure and physical conditions of their atmosphere can be characterised with a facility like JWST with the prospect to carry out genuine pioneering work in bio-signatures detections on planetary systems different from the Earth's orbiting stars massively present in the Galaxy. This initiative will hopefully provide researchers with new elements to make progress towards the understanding of the emergence of life from an astronomy perspective.	9/1/2016 9/1/2017	No	N/A	N/A
The University of Cambridge The Old Schools Trinity Lane Cambridge CB2 1TN, United Kingdom	200,280	9/25/2015		After two decades of discoveries, planets orbiting other stars (exoplanets) capture the interest of both scientists and the public with the haunting prospect of the search for life in the Universe. Beyond the exploration of the architecture of planetary systems that have revealed surprising diversities, exoplanets bulk structure and atmosphere compositions holds key insights into their origins and history as well as long-term prospect to remotely question the potential habitability of these “other worlds”. While it seems an extraordinary endeavor, only a handful of key ingredients are required to start characterizing an exoplanet in light of what has been learnt for Solar System planets with the prospect to look for bio- signature detections. The fundamental quantity includes, the mass and the size of the planet, its temperature and some physical characteristic of major chemical ingredients present in its atmosphere. These fundamental parameters allow for the gathering of insights on the composition, formation and evolution history of planets, eventually bringing new elements to question their habitability and the diversity of physical conditions where life may develop. The special geometry of transiting planets provides researchers with an efficient and realistic way to probe their atmospheric structure. During the secondary eclipse, the star occults the thermal emission from the planet, which can then be computed from comparison with the total flux out of transit. With measurements at several wavelengths, researchers can map the spectral energy distribution. The observation of the planet during the transit at many different wavelengths allows researchers to obtain its transmission spectra (stellar light going through the planet atmosphere). With these observations, atmosphere properties such as albedo, thermal redistribution efficiency, temperature structure and composition of the atmosphere may be retrieved. The nearest ultra-cool stars offer a unique opportunity to search for life signatures. These stars, the most frequent in Earth's Galaxy, are typically two times cooler than the Sun, and their sizes are similar to Jupiter. The habitable zone region is 30-100 times closer than for the Sun and transit signature of an Earth size planet in orbit would be deep and short enough to be detected from the ground. Researchers proposed a new facility (SPECULOOS) to carry out a survey of ultra cool stars almost uniformly spread in the whole sky. The outcome of this survey will be a unique set of small “Earth like” transiting planets for which structure and physical conditions of their atmosphere can be characterised with a facility like JWST with the prospect to carry out genuine pioneering work in bio-signatures detections on planetary systems different from the Earth's orbiting stars massively present in the Galaxy. This initiative will hopefully provide researchers with new elements to make progress towards the understanding of the emergence of life from an astronomy perspective.	9/1/2016 9/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
The University of Queensland Cumbræ Stewart (Building 72) The University of Queensland Brisbane, QLD, 4072	74,975	11/30/2016		Research into the developmental underpinnings of autism spectrum disorder (ASD) is hampered by a lack of techniques for describing neural development at the cellular and circuit levels. Ethan Scott and his colleagues plan to use zebrafish as a platform for anatomical and functional analyses of ASD etiology at the level of individual neurons and the circuits that they form. Zebrafish larvae are transparent, allowing neural development in the intact animal to be examined with a range of microscopic and optogenetic techniques. Scott generated targeted mutations in six ASD candidate risk genes as part of his previous SFARI Explorer grant. For the current project, Scott’s team will fluorescently label individual neurons in the brain and perform time-lapse imaging of their development in order to gauge whether these mutations affect the morphology or dynamics of developing neurons. This approach will permit the team to describe both static structures and the rates at which neurons add or retract neurites as they develop. Because cerebellar Purkinje neurons have been implicated in ASD, and due to their morphological complexity, the initial focus will be on morphologically assessing these neurons. Using a genetically encoded calcium indicator and selective plane illumination microscopy, Scott and his colleagues will also assess the calcium dynamics of thousands of neurons simultaneously at single-cell resolution. These data will allow the team to look for changes in spontaneous activity and the formation of functional ensembles that might occur in the mutant zebrafish. The team will also perform behavioral analyses of the mutant zebrafish larvae; these assays will focus on assessing locomotor behavior, motor coordination and motor learning behaviors relevant to ASD phenotypes. The combined use of these approaches will reveal the anatomical, dynamic and functional properties of cells and circuits in the brain, and will show how such circuitry is altered by mutations in ASD candidate risk genes. The overall goal of the project is to link behavioral deficits to perturbations in the cells or circuits of the developing brain that preceded them. This will generate insights into the developmental mechanisms by which ASD arises.	11/1/2017	No	N/A	N/A
The University of Queensland Brisbane QLD 4072, Australia	60,000	10/29/2014	60,000	Past work has made it clear that there are important links between Autism Spectrum Disorder (ASD) and the cerebellum, but it is still poorly understood exactly what goes wrong as the cerebellum develops, and how these problems result in the behavioral issues encountered by ASD sufferers. In this project, researchers are using a new set of optogenetic techniques to look at how individual cells in the cerebellum develop and function. Because the researchers will be working in zebrafish, an optically clear organism, development of cerebellar cells will be observed over time. The researchers do this both for genetically normal animals and animals bearing mutations associated with ASD. The goal is to figure out what the impacts of these genetic mutations are on the development of cerebellar circuits, and therefore to better understand the links among genes, cells, circuits, and behavior in ASD.	1/1/2016	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
The University of Sydney Research Office Level 6 Jane Foss Russell Building (G02) The University of Sydney Sydney, 2006	139,606	3/29/16 5/25/16	74,773	Aims The aim of this proposal is to conduct the first study on the impact of PT-141 nasal spray administration on key mechanisms involved in social communication in humans, including participants diagnosed with autism We hypothesize that PT-141 nasal spray will, in comparison to an identical and matched placebo, increase gaze to the eyes, improve the accurate and fast identification of the correct emotion from faces, and improve the capacity of participants diagnosed with autism to correctly respond to social cues Background Research shows the crucial role of the neuropeptide hormone oxytocin (OT) in the modulation of social recognition, approach and avoidance in male and female mammals In humans, we recently concluded that OT has a significant impact by improving attention to, and recognition of, faces and socially themed words, the encoding and recall of faces, and facilitating favourable appraisals of social images and people Some of these effects have been shown in participants diagnosed with autism, with substantial potential that OT may provide a potential treatment for autism We have, however, argued that the therapeutic efficacy of OT may be limited in capacity to reliably produce benefits, partly because the peptide does not readily pass the blood-brain barrier and enter central circulation An alternative approach is to stimulate endogenous OT release Melanocortin 4 receptor (MC4-R) stimulation, in particular, has been shown to induce central but not peripheral release of OT in rats, and induce c-fos gene expression in OT neurons Larry Young’s lab has demonstrated that peripherally-administered MC4R agonists facilitates pair bonding even more efficiently than central OT administration In humans, PT-141 is a noted safe and effective synthetic peptide analogue of a-melanocyte-stimulating hormone (a-MSH) that acts as an agonist at melanocortin receptors, including the MC3R and MC4R Approach This study employs a randomized controlled crossover within-subjects double-blind design A total of 60 neurotypical participants and 60 participants diagnosed with autism will be randomly assigned to receive PT-141 nasal spray or placebo nasal spray at the first assessment session Following drug administration, participants complete a range of social-cognitive experimental tasks, measuring eye-gaze, emotion recognition and comprehension of social situations Blood pressure and heart rate variability will also be measured Two weeks later, participants return and receive the alternate nasal spray Significance This study uses an innovative approach to activate the OT system, by targeting peripheral mechanisms and circumventing concerns around permeability of the blood brain barrier This will be the first study to explore the use of an MC4R agonist on social cognition in humans Positive results provide an incentive for drug companies to make available MC4R agonists for studies in ASD This project will continue to strengthen the profile of the Simon's Foundation in the scientific community as being at the forefront of innovative research Results promise to significantly advance the neuroscience of social behavior in this heated research field and to develop a novel treatment for ASD	11/1/2016	No	N/A	N/A
The University of York Heslington Hall Heslington York, YO10 5DD	58,035	4/27/2016	20,101	Identifying biological markers of behavioral differences between the genders is important for autism research because a diagnosis of ASD is at least four times more likely in males than in females (Frith, 2003) Using the cortical face perception network as a model system to better understand ASD is also pertinent because of the behavioral impairments exhibited by autistics Compared to control participants, individuals with ASD are impaired during social interactions and faces are perhaps the most salient social stimulus we encounter This suggests that face-selective regions in the ASD population may also be impaired Consistent with this hypothesis prior neuroimaging studies have demonstrated that individuals diagnosed with ASD show abnormal neural responses to faces in face-selective regions of the brain such as the fusiform face area (FFA) (Schultz et al , 2000, Critchley et al , 2000) If differences in face discrimination abilities exist between females and males in the neurologically normal population then this could suggest one reason why males are more likely to be diagnosed with ASD than females The novelty of this proposal is that the proposed studies use two experimental methods, namely fMRI and TMS If differences in the sizes of face-selective regions do exist between men and women it is still unclear how and why such differences would impact behavior Using TMS to disrupt face-selective regions while participants perform face discrimination tasks addresses this question In addition, if the size of the induced TMS impairment correlates with the size of the disrupted face-selective region then this will provide an experimental technique for causally linking fMRI measurements with behavioral task performance If such a technique is successfully developed it could be used to aid diagnosis and to provide a greater understanding of autism spectrum disorders	5/1/2017	No	N/A	N/A
Tsinghua University Education Foundation Mathematical Sciences Center Tsinghua University Room 131 Jin Chun Yuan West Building Haidian District Beijing 100084, China	120,000	4/25/2014, 6/25/2014, 9/30/2014, 12/22/2014	80,623	Tsinghua Sanya International Mathematics Forum - become a base for scientific innovations through interactions between leading mathematicians and core research groups in pure and applied mathematics, statistics, theoretical physics, theoretical biology	2/28/2015	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Tsinghua University Education Foundation Mathematical Sciences Center Tsinghua University Room 131 Jin Chun Yuan West Building Haidian District Beijing 100084, China	120,000	3/25/2015, 6/12/2015, 9/25/2015, 12/21/2015	38,629	Tsinghua Sanya International Mathematics Forum - become a base for scientific innovations through interactions between leading mathematicians and core research groups in pure and applied mathematics, statistics, theoretical physics, theoretical biology	2/28/2016	No	N/A	N/A
Universidade do Porto Reitoria da Universidade do Porto Praça Gomes Teixeira Porto, 4099-002	57,739	11/30/2016		Simons Collaboration on the Non-perturbative Bootstrap	11/1/2017	No	N/A	N/A
Universidade Estadual Paulista “Júlio de Mesquita Filho” São Paulo, São Paulo, Brazil	60,000	10/26/2016	33,055	Sao Paulo State Research Funding Agency Fellowship	9/29/2017	No	N/A	N/A
Università degli studi di Trento Via Calepina 14 Trento, Italy 38122	200,000	5/22/2015, 11/20/2015	200,000	Sequencing data suggest that inorganic molecules sequestered from the environment, namely iron-sulfur clusters, are crucial for extant life and were exploited early in evolution. These metal clusters play structural and catalytic roles inside cells and are particularly important for metabolic processes such as respiration. Nevertheless, nearly all investigations into the impact of iron-sulfur clusters on the origins of life have focused on a narrow set of environmental conditions not compatible with other chemical scenarios thought to be important for protocellular survival. The researchers plan to address this problem by evaluating the ability of iron-sulfur clusters to form in environments compatible with other prebiotically important processes, such as nucleotide synthesis and compartment formation. Finally, the researchers will ascertain whether the identified conditions and metal clusters are able to mediate chemical transformations that could have facilitated the emergence of life on Earth.	11/1/2015 11/1/2016	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
Universite Cheikh Anta Diop de Dakar, Senegal B P 16889 Dakar-Fann, 16889	80,000	5/23/2016 11/30/2016	80,000	Non-Linear Analysis, Geometry and Application Project	7/1/2017	No	N/A	N/A
Universite Cheikh Anta Diop de Dakar, Senegal Mathematics & Decision Department B P 16889 Dakar-Fann, Senegal	80,000	5/31/2014, 11/30/2014	80,000	Non-Linear Analysis, Geometry and Application Project	6/30/2015 6/30/2016	No	N/A	N/A
Universite Cheikh Anta Diop de Dakar, Senegal Mathematics & Decision Department B P 16889 Dakar-Fann, Senegal	80,000	5/22/2015, 12/21/2015	80,000	Non-Linear Analysis, Geometry and Application Project	6/30/2016 7/1/2017	No	N/A	N/A
Universite de Montreal 3744 Jean-Brillant office 6320 Montreal, Quebec Canada H3T1P1	120,486	9/30/2015	87,696	In recent years, joint with Paul Biran (ETH), the University has studied a number of relations between Lagrangian cobordism and the J-holomorphic techniques that are fundamental in symplectic topology, in particular, the Fukaya category and its derived version There are two main scientific goals for the period in question 1 Study the implications of mirror symmetry on the understanding of Lagrangian cobordism 2 Understand the relations of cobordism and metric invariants in symplectic topology (such as spectral invariants and so forth)	7/31/2016	No	N/A	N/A
Université des Sciences et Techniques de Masuku BP 943 Franceville Franceville, BP 943	80,000	5/25/2016 11/30/2016	53,794	(MPS-AMP) Develop the Pole of Research in Mathematics and their Applications in Information Security in Sub-Saharan Africa	7/1/2017	No	N/A	N/A
UniversitÉ des Sciences et Techniques de Masuku BP 943 Franceville Franceville, Gabon BP 943	80,000	5/31/2015, 12/31/2015	80,000	(MPS-AMP) Develop the Pole of Research in Mathematics and their Applications in Information Security in Sub-Saharan Africa	6/30/2016 7/1/2017	No	N/A	N/A
University College London Research Services University College London Gower Street London, WC1E 6BT	550,003	2/26/2017 5/25/2017 8/26/2017	288,608	Nature has built all living species from a small set of universal chemical components The universality of these biochemical components first led to the idea of a chemical origin of life Organic chemistry was born from the desire to understand the chemical constituents of life and, as early as 1828, the synthesis of the organic molecule urea from inorganic materials was reported However, understanding the origins of life, and transition from inanimate to animate, remains one of the most fundamental and diverse challenges to face modern science Inevitably, chemistry must play a significant role in elucidation of the pathways through which molecules can give rise to life Although life consists of an intriguingly small constellation of closely related molecules, the function of the individual biological molecules cannot be appreciated in isolation Therefore, the researchers propose that the generation of the first biological molecules, at the origins of life, requires unified investigation Chemistry will be used to explore the fundamental links between the essential molecular components of biology	8/1/2016 8/1/2017	No	N/A	N/A
University College London Research Services University College London Gower Street London, WC1E 6BT	300,000	3/29/2016 5/25/2016 10/26/2016	300,000	Much like a digital computer constructs sophisticated computations from the action of simple switches, the brain as a whole is able to execute vastly more complex computations than can any one of its component elements In both systems, this remarkable computational power hinges on fine coordination between the simple parts, as they function within their respective circuits However, though there is an understanding of both switches and circuits in a computer, there is only the most rudimentary idea of how such coordinated computation is achieved within the brain The components of the brain - the nerve cells or neurons - mostly send signals to each other in the form of sequences of short pulses or "spikes" To the best of the scientific community's current knowledge, these spikes are generated and transmitted in a stochastic way, leading to the current belief that the brain must overcome this "noise" to compute Much of what has been learned about computation in the brain has been based on experiments that listen to spikes from one neuron at a time, averaging over experiments to beat down the noise Increasingly, however, technical advances make it possible to measure spikes simultaneously from hundreds or thousands of neurons within a single circuit But just to measure the spikes is not, by itself, to understand the computation In order to do this, neuron coordination must be discovered Furthermore, researchers must determin how that coordination effects the computation The goal of this project is to develop the algorithms and data-analytic tools that will be needed to achieve this objective The researchers will seek to detect the patterns and regularities in the spikes produced by many cells working together By identifying such concerted action researchers hope they will be able to see through the noise (much as the brain itself does) to the computation that unfolds moment by moment	9/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
University College London Research Services University College London Gower Street London, WC1E 6BT	468,895	3/29/2016 5/25/2016 10/26/2016	303,283	Cortical information processing is usually considered to occur in a local manner. Nevertheless, this local processing is strongly modulated by brain states, which reflect the influence of factors such as wakefulness, behavior, motivation, attention, and alertness. How global are brain states? And how do they influence local cortical processing, in populations and individual neurons? Answering these questions requires integrating neuroscience at the global and local levels. Aim 1: How global are brain states? When an animal is not engaged in a task, the cortex is in a global synchronized state characterized by slow oscillations, which reflect waves of activity propagating across cortex. Work in primates suggests that attention breaks this state, causing desynchronization in a region of cortex. We hypothesize that the use of a local region of cortex causes local desynchronization, through the exclusion of spontaneous traveling waves from that region. We will test this hypothesis by imaging global patterns of cortical activity using widefield optics, as mice transition from rest to an active visual discrimination task, and back to subsequent rest. Aim 2: How do brain states affect local computation? Work in primates suggests that the changes in local brain state due to spatial attention increase the gain of sensory responses, possibly through mechanisms of divisive normalization. We hypothesize that the local effect of brain state is to control neural gain, and is possibly described by the normalization equations. Further, we hypothesize that activity in higher-order areas are more strongly determined by global signals. We will test these hypotheses by imaging local groups of ~1,000 neurons using 2-photon optics, and comparing their responsiveness (while distinguishing between neuronal classes) during visually demanding tasks vs. during passive viewing. Aim 3: How does a neuron combine local activity with global modulations? Preliminary observations from our laboratory suggest that the apical dendrites of pyramidal neurons in mouse primary visual cortex carry signals that are more related to top-down influences, than the signals measured at the soma. This observation seems consistent with the anatomy, as long-range cortical connections tend to target the superficial layers, and suggests that distal dendrites are the emissaries to the soma of global brain signals. We will test this hypothesis through 2-photon imaging of mice where the calcium indicator is expressed only in distinct single neurons, so we can compare the responses of their dendrites to those measured at the soma. If the hypothesis is correct, we will find a gradient of response properties, with signals in apical dendrites reflecting global brain states and task variables, and signals elsewhere being more closely related to the sensory inputs. By comparing these responses within the same neuron, we will be able to model the interaction between the two kinds of signals. This research will reveal how global activity patterns are structured at a systems level, how these patterns are modulated by behaviors from sleep to active perceptual discrimination, and how they affect the activity of local neuronal populations involved in sensory processing and behavioral output.	9/1/2016	No	N/A	N/A
University College London Gower Street London, WC1E 6BT	100,513	9/25/2015	100,513	Much like a digital computer constructs sophisticated computations from the action of simple switches, the brain as a whole is able to execute vastly more complex computations than can any one of its component elements. In both systems, this remarkable computational power hinges on fine coordination between the simple parts, as they function within their respective circuits. However, though there is an understanding of both switches and circuits in a computer, there is only the most rudimentary idea of how such coordinated computation is achieved within the brain. The components of the brain - the nerve cells or neurons - mostly send signals to each other in the form of sequences of short pulses or "spikes." To the best of the scientific community's current knowledge, these spikes are generated and transmitted in a stochastic way, leading to the current belief that the brain must overcome this "noise" to compute. Much of what has been learned about computation in the brain has been based on experiments that listen to spikes from one neuron at a time, averaging over experiments to beat down the noise. Increasingly, however, technical advances make it possible to measure spikes simultaneously from hundreds or thousands of neurons within a single circuit. But just to measure the spikes is not, by itself, to understand the computation. In order to do this, neuron coordination must be discovered. Furthermore, researchers must determine how that coordination affects the computation. The goal of this project is to develop the algorithms and data-analytic tools that will be needed to achieve this objective. The researchers will seek to detect the patterns and regularities in the spikes produced by many cells working together. By identifying such concerted action, researchers hope they will be able to see through the noise (much as the brain itself does) to the computation that unfolds moment by moment.	9/1/2016	No	N/A	N/A
University College London Research Services University College London Gower Street London, United Kingdom WC1E 6BT	110,000	11/30/2015	88,968	It from Qubit: Quantum Fields, Gravity, and Information	11/1/2016 11/1/2017	No	N/A	N/A
University College London Research Services University College London Gower Street London, United Kingdom WC1E 6BT	110,000	11/30/2016		It from Qubit: Quantum Fields, Gravity, and Information	11/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
University of Botswana Department of Mathematics Pvt Bag 00704 Gaborone, Botswana	40,000	5/22/2015	40,000	The grant has two components (i) Teaching and (ii) Research Teaching is going on mainly at the University of Botswana where 4 MSC students are being supported to undertake studies in fulfillment of part I of the program The students are enrolled in courses in Financial Mathematics (2 courses), Mathematical Biology (1 course) and Pure Mathematics (3 courses) This group of students forms the basis for future enrollment of PhD students for the project	6/30/2015 12/11/2015 7/1/2017	No	N/A	N/A
University of British Columbia #102-6190 Agronomy Road Vancouver,British Columbia V6T 1Z3	120,000	4/27/2016	117,210	The major challenge faced by researchers attempting to understand the origins of Autism Spectrum Disorders (ASD) is that thousands of gene mutations have been linked to the disease Since research to test how one gene mutation affects brain circuit development can take years, researchers must develop alternative strategies to rapidly test large numbers of gene mutations to increase the pace of discovery Here, the University proposes a radically different approach that makes best use of high- and slow-throughput assays University researchers will employ high-throughput systems to test large numbers of mutations in order to identify those causing the largest effects and to reduce the number of mutations tested by eliminating those that induce the same effects as others Mutations found to induce strong and unique effects will then be tested in slower-throughput animal models that more closely resemble human brain development The outcome of this project will greatly benefit the field of ASD research by directing efforts towards appropriate mutations In addition, the large number and wide range of assays researchers propose to conduct on each mutation will yield a wealth of data providing insight on the molecular mechanisms underlying ASD Such insights are required first-steps for formulating novel therapies to prevent or treat this disorder	10/1/2016	No	N/A	N/A
University of British Columbia #102-6190 Agronomy Road Vancouver,British Columbia V6T 1Z3	66,000	4/27/2016	-16,331	Simons Investigator in Physics	10/1/2016 10/1/2017	No	N/A	N/A
University of British Columbia #102-6190 Agronomy Road Vancouver, British Columbia Canada V6T 1Z3	120,000	10/30/2015	120,000	The major challenge faced by researchers attempting to understand the origins of Autism Spectrum Disorders (ASD) is that thousands of gene mutations have been linked to the disease Since research to test how one gene mutation affects brain circuit development can take years, researchers must develop alternative strategies to rapidly test large numbers of gene mutations to increase the pace of discovery Here, the University proposes a radically different approach that makes best use of high- and slow-throughput assays University researchers will employ high-throughput systems to test large numbers of mutations in order to identify those causing the largest effects and to reduce the number of mutations tested by eliminating those that induce the same effects as others Mutations found to induce strong and unique effects will then be tested in slower-throughput animal models that more closely resemble human brain development The outcome of this project will greatly benefit the field of ASD research by directing efforts towards appropriate mutations In addition, the large number and wide range of assays researchers propose to conduct on each mutation will yield a wealth of data providing insight on the molecular mechanisms underlying ASD Such insights are required first-steps for formulating novel therapies to prevent or treat this disorder	10/1/2016	No	N/A	N/A
University of British Columbia #102-6190 Agronomy Road Vancouver, British Columbia Canada V6T 1Z3	66,000	10/30/2015	66,000	Simons Investigator in Physics	10/1/2016 10/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
University of British Columbia #102-6190 Agronomy Road Vancouver, British Columbia Canada V6T 1Z3	110,000	11/30/2015	100,651	It from Qubit Quantum Fields, Gravity, and Information	11/1/2016 11/1/2017	No	N/A	N/A
University of Cape Town Bremner Building Lover's Walk Rondebosch Cape Town, 7700	60,000	11/30/2016 12/07/2016	42,997	IBRO-SIMONS Computational Neuroscience Imbizo (ISI-CNI) - To establish an internationally recognized summer programme in theoretical and computational neuroscience - To support, link, and collaborate with the greater neuroscience community in South Africa - To train a new generation of interdisciplinary post-graduate researchers who employ mathematical and computational techniques in their quest to understand the brain in experiment and theory - To create a bridge head of quantitative neuroscience for the development of all neuroscience in Southern Africa	4/1/2017	No	N/A	N/A
University of Durham Durham University Palatine Centre Stockton Road Durham, DH1 3LE	50,712	12/19/2016		Simons Collaboration on the Non-perturbative Bootstrap	11/1/2017	No	N/A	N/A
University of Geneva 24, rue General Dufour Geneva, Switzerland 1204	104,040	3/25/2015, 9/25/2015	104,040	Neural encoding and decoding of policy uncertainty in the frontal cortex	9/1/2016	No	N/A	N/A
University of Geneva 24, rue General Dufour Geneva, Switzerland 1204	65,520	4/27/2016	65,520	Neural encoding and decoding of policy uncertainty in the frontal cortex	9/1/2017	No	N/A	N/A
University of Lausanne Universit� de Lausanne BRA 303 Lausanne, Switzerland 1015	100,000	11/30/2014	100,000	Copy number variants (CNVs) are major contributors to neurodevelopmental and psychiatric disorders The 600kb-long 16p11 2 deletion that encodes 29 annotated protein-coding genes and its reciprocal duplication are amongst the most frequent causes of neurodevelopmental disorders with population prevalence of 1/2000 each These recurrent rearrangements are associated with reciprocal phenotypes such as obesity and underweight, macro- and microcephaly, autism spectrum disorder (ASD) and schizophrenia (SCZ), as well as various forms of epilepsy These comorbidities might be causally linked, with macrocephaly shown to be associated with ASD and microcephaly with SCZ for example Consistent with these observations the researchers report an increased growth velocity of the head circumference during 16p11 2 deletion patients' infancy, which recapitulates the well-documented pattern in idiopathic ASD The reciprocal 16p11 2 CNVs represent a powerful tool to investigate pathways involved in obesity and neuropsychiatric disorders The first goal of the proposed research is to better define these clinical entities in humans and understand how the 16p11 2 variants in combination with additional factors lead to different clinical outcomes The second objective is to use engineered mouse models to test candidate genes and explore the pathophysiology of these CNVs The results should bring new insights in these diseases, information on genes underlying these conditions and pathways leading to morbidity, thereby providing potential targets for better patient management and care or treatment	11/1/2015	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
University of Lausanne Universit� de Lausanne BRA 303 Lausanne, Switzerland 1015	100,000	11/30/2015	100,000	Copy number variants (CNVs) are major contributors to neurodevelopmental and psychiatric disorders. The 600kb-long 16p11.2 deletion that encodes 29 annotated protein-coding genes and its reciprocal duplication are amongst the most frequent causes of neurodevelopmental disorders with population prevalence of 1/2000 each. These recurrent rearrangements are associated with reciprocal phenotypes such as obesity and underweight, macro- and microcephaly, autism spectrum disorder (ASD) and schizophrenia (SCZ), as well as various forms of epilepsy. These comorbidities might be causally linked, with macrocephaly shown to be associated with ASD and microcephaly with SCZ for example. Consistent with these observations the researchers report an increased growth velocity of the head circumference during 16p11.2 deletion patients' infancy, which recapitulates the well-documented pattern in idiopathic ASD. The reciprocal 16p11.2 CNVs represent a powerful tool to investigate pathways involved in obesity and neuropsychiatric disorders. The first goal of the proposed research is to better define these clinical entities in humans and understand how the 16p11.2 variants in combination with additional factors lead to different clinical outcomes. The second objective is to use engineered mouse models to test candidate genes and explore the pathophysiology of these CNVs. The results should bring new insights in these diseases, information on genes underlying these conditions and pathways leading to morbidity, thereby providing potential targets for better patient management and care or treatment.	11/1/2016	No	N/A	N/A
University of Ottawa 550 Cumberland Street, room 030B Ottawa, Ontario K1N 6N5, Canada	70,500	6/22/2016	63,041	Over decades, scientists have been trying to understand how life as we know it today emerged from simpler molecules. From a chemical evolution perspective, the molecular complexity of life is daunting. Building on the key Miller experiment, scientists have attempted to rationalize how simple molecular building blocks (HCN, NH3, CH4, aldehydes, etc.) have led to more complex structures such as purines, pyrimidines, amino acids, and eventually to self-replicating machinery. By definition, these structures must form through intermolecular reactions, for which there is an entropic penalty. Intermolecular reactions are also inherently slow at low concentrations. Catalysis of difficult intermolecular reactions is very important, as it could have dictated how chemical evolution occurred. This proposal aims at investigating the roles of simple aldehydes and carbohydrates as catalysts in chemical evolution (prebiotic chemistry). An important goal is to establish that aldehydes could have acted as "simple enzymes" for many reactions involving water, which were crucial to form the building blocks of life (amino acids and base pairs). Second, it will show that these aldehydes can operate as catalysts under dilute aqueous conditions, through a pre-concentration mechanism that avoids most of the entropic penalty associated with intermolecular reactions. In parallel, studies will focus on possible mechanisms through which aldehydes and carbohydrates could have induced homochirality under prebiotic conditions, and create the single handedness observed in organic molecules. Overall, this work will establish that several prebiotic aldehydes and carbohydrates are "sweet" catalysts, thus addressing an important void in the prebiotic chemistry literature.	7/1/2017	No	N/A	N/A
University of Oxford University Offices, Wellington Square Oxford, OX1 2JD	64,524	5/25/2016	64,051	The proposed research takes advantage of the substantial resources available within Oxford University to demonstrate a new MRI marker of autism. Disturbed development of microscopic brain cell structures, called 'minicolumns', has come to form one of the key theories of what is different in the brain in ASD. These minicolumns have also been suggested to explain greater sensory sensitivity in autism and as a target for therapies. However, accurate diagnosis in life is difficult because detailed developmental changes in these structures cannot be seen in brain imaging of living subjects. The goal of this research is to prove that a signal for this microscopic structure may now be detected and measured in MRI scans of post-mortem tissue. This measure has enormous potential for future application in living subjects. If proven, it would aid early diagnosis and provide a harmless and reliable method to monitor ongoing changes across the lifespan, including changes in response to therapies. Ultimately, it would help to improve individual care through more effective, targeted therapies. The researchers have previously pioneered work that demonstrated the relationship between brain minicolumns and mental ability, including IQ. Identifying changes in the brain areas that process sound, vision and other senses also has great promise for developing simple, sensory, diagnostic tests. The study will take measurements in human brain tissue from 15 ASD and 15 typically developed comparison subjects from the UK brain bank which has strong links to the USA program. These will be directly compared with ground-breaking analysis of MRI scans from exactly the same brains, as well as piloting such measures in pre-existing living brain scans from 46 subjects. Several brain regions will be examined including those related to primary senses (vision and sound), Theory of Mind, language and planning.	5/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
University of Oxford 23-38 Hythe Bridge Street Oxford, OX1 2ET UK	125,000	5/22/2015 12/15/2015	125,000	The proposed research takes advantage of the substantial resources available within Oxford University to demonstrate a new MRI marker of autism. Disturbed development of microscopic brain cell structures, called 'minicolumns', has come to form one of the key theories of what is different in the brain in ASD. These minicolumns have also been suggested to explain greater sensory sensitivity in autism and as a target for therapies. However, accurate diagnosis in life is difficult because detailed developmental changes in these structures cannot be seen in brain imaging of living subjects. The goal of this research is to prove that a signal for this microscopic structure may now be detected and measured in MRI scans of post-mortem tissue. This measure has enormous potential for future application in living subjects. If proven, it would aid early diagnosis and provide a harmless and reliable method to monitor ongoing changes across the lifespan, including changes in response to therapies. Ultimately, it would help to improve individual care through more effective, targeted therapies. The researchers have previously pioneered work that demonstrated the relationship between brain minicolumns and mental ability, including IQ. Identifying changes in the brain areas that process sound, vision and other senses also has great promise for developing simple, sensory, diagnostic tests. The study will take measurements in human brain tissue from 15 ASD and 15 typically developed comparison subjects from the UK brain bank which has strong links to the USA program. These will be directly compared with ground-breaking analysis of MRI scans from exactly the same brains, as well as piloting such measures in pre-existing living brain scans from 46 subjects. Several brain regions will be examined including those related to primary senses (vision and sound), Theory of Mind, language and planning.	11/1/2016	No	N/A	N/A
University of Oxford University Offices, Wellington Square Oxford, United Kingdom OX1 2JD	59,995	1/30/2015	59,585 (410)	All genetic diseases start by a process termed mutation, whereby a copying error arises in the DNA. When this occurs in the eggs or sperm, it can be transmitted to the next generation. University researchers have previously described a process taking place in the cells of all men's testes that promotes harmful mutations, so that they paradoxically increase in the sperm as men age. This is because these mutations hijack the way sperm is produced by providing a growth advantage to the cells in which they occur - which is why they are termed "selfish". So far, this mechanism has been demonstrated only in rare conditions associated with severe malformations or death in the newborn child. However these may only represent the most obvious and extreme cases of a basic process that is more common than currently realised. Indeed, many of the genes that control cell decisions in the testis are also re-expressed later in the brain, where they play essential roles in brain development and functioning. Hence, University researchers have proposed that the process of "selfish spermatogonial selection" taking place in the testis contributes to the genetics of other diseases, including autism, and is important for the evolution of the human genome. This research proposal aims to exploit recent advances in DNA technologies to explore the relationship between the process of selfish spermatogonial selection and the occurrence of specific mutations that have been identified in patients with neurocognitive disorders, by looking for these mutations directly within the testes of aging men.	3/1/2016	No	N/A	N/A
University of Oxford University Offices, Wellington Square Oxford, United Kingdom OX1 2JD	66,000	10/31/2015	47,246	Simons Investigator in Mathematics	10/1/2016 10/1/2017	No	N/A	N/A
University of Oxford University Offices, Wellington Square Oxford, United Kingdom OX1 2JD	132,000	4/24/2016 10/26/2016		Simons Investigator in Mathematics	10/1/2017	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
University of St Andrews Research Funding Office The Gateway North Haugh St Andrews KY16 9AH St Andrews, KY16 9SS	165,000	1/27/2016 12/19/2016	76,408	Atmospheric modeling allows us to examine two key areas of interest in origins research Ð the remote detection of life on an exoplanet and the atmospheric conditions of early Earth that gave rise to the origin of life Theoretical modeling of atmospheres is essential in determining the size, resolution, and observing time required for a telescope to detect signs of life, or biosignatures, around an Earth-like planet orbiting a distant star Currently all observing strategies for rocky planets rely on the ability to add multiple observations of a planet to detect atmospheric gases This inherently assumes the planetÕs atmosphere is constant in the months or years it takes for these multiple observations However, stars can have variations in their output of high-energy light over that time I propose to examine how the atmosphere might change due to this variation in high-energy light from the host star I will then test how averaging multiple observations from a changing atmosphere might confuse our search for biosignatures in the future I also am interested in understanding the early Earth conditions that gave rise to the origin of life We have geological evidence for warm climates and liquid water on the surface of Earth 4 4 billion years ago, yet it is difficult for current climate models to predict above freezing temperatures This is called the Faint Young Sun Paradox I propose to look at a potential solution to the paradox by including clouds in our climate model In addition, a natural output of my models is the amount of high-energy light reaching the surface of a planet This high-energy light can have both positive and negative effects on early life and chemistry I propose to collaborate with other Simons teams to model the amount of high-energy light reaching the surface at the geological times of interest to them in their experiments	12/1/2016	No	N/A	N/A
University of Toronto 7360 Medical Sciences Building 1 King's College Circle Toronto, ON M5S 1A8, Canada	164,326	3/30/2014, 9/30/2014	164,326	Duplication of a small segment of human chromosome 7 has recently been found in some children with autism This project aims to understand the underlying biology of autism in this group through the study of a mouse model with a similar duplication, and the study of human brain cells (neurons) made from the blood cells of people with the duplication The duplication mouse model will undergo in-depth testing for behaviors that are relevant to autism in humans, such as abnormal social interaction, impaired communication and repetitive behaviors The researchers will also use MRI imaging to look at the brain structure in these mice, and examine how their neurons grow and function in culture, with the aim of seeing whether they show similar or different alterations to other mouse models of autism The researchers will use a recently developed technique to reprogram human blood cells into stem cells, and then make these stem cells grow into neurons in culture This technique allows for study of neurons from people with the chromosome 7 duplication and unaffected family members, even though brain tissue cannot be accessed directly The researchers will carry out parallel studies of the growth and function of these neurons and compare the results to those from the mouse model Finally, the researchers will look at all the genes in these mouse and human neurons, to see whether they can find any differences in which genes are switched on or off in cells with the duplication, compared to cells without the duplication Together, these experiments will provide key information about the effect of the chromosome 7 duplication on the growth and function of the brain This study will contribute to the growing understanding of the biology of autism and help build a picture of how and why symptoms arise in autism due to alterations in different genes	3/1/2014, 3/1/2015, 3/1/2016	No	N/A	N/A
University of Toronto 7360 Medical Sciences Building 1 King's College Circle Toronto, ON M5S 1A8, Canada	138,402	3/25/2015, 9/25/2015	138,402	Duplication of a small segment of human chromosome 7 has recently been found in some children with autism This project aims to understand the underlying biology of autism in this group through the study of a mouse model with a similar duplication, and the study of human brain cells (neurons) made from the blood cells of people with the duplication The duplication mouse model will undergo in-depth testing for behaviors that are relevant to autism in humans, such as abnormal social interaction, impaired communication and repetitive behaviors The researchers will also use MRI imaging to look at the brain structure in these mice, and examine how their neurons grow and function in culture, with the aim of seeing whether they show similar or different alterations to other mouse models of autism The researchers will use a recently developed technique to reprogram human blood cells into stem cells, and then make these stem cells grow into neurons in culture This technique allows for study of neurons from people with the chromosome 7 duplication and unaffected family members, even though brain tissue cannot be accessed directly The researchers will carry out parallel studies of the growth and function of these neurons and compare the results to those from the mouse model Finally, the researchers will look at all the genes in these mouse and human neurons, to see whether they can find any differences in which genes are switched on or off in cells with the duplication, compared to cells without the duplication Together, these experiments will provide key information about the effect of the chromosome 7 duplication on the growth and function of the brain This study will contribute to the growing understanding of the biology of autism and help build a picture of how and why symptoms arise in autism due to alterations in different genes	3/1/2016	No	N/A	N/A

RECIPIENT'S NAME AND ADDRESS	GRANT AMOUNT	DATE OF GRANT	AMOUNT EXPENDED/ (RETURNED)	PURPOSE OF GRANT	DATE/(DUE) OF REPORTS BY GRANTEE	DIVERSIONS BY GRANTEE	VERIFICATION DATE	RESULTS OF VERIFICATION
University of Trento Via Calepina 14 Trento, 38122	100,000	5/25/2016	79,653	Sequencing data suggest that inorganic molecules sequestered from the environment, namely iron-sulfur clusters, are crucial for extant life and were exploited early in evolution. These metal clusters play structural and catalytic roles inside cells and are particularly important for metabolic processes such as respiration. Nevertheless, nearly all investigations into the impact of iron-sulfur clusters on the origins of life have focused on a narrow set of environmental conditions not compatible with other chemical scenarios thought to be important for protocellular survival. The researchers plan to address this problem by evaluating the ability of iron-sulfur clusters to form in environments compatible with other prebiotically important processes, such as nucleotide synthesis and compartment formation. Finally, the researchers will ascertain whether the identified conditions and metal clusters are able to mediate chemical transformations that could have facilitated the emergence of life on Earth.	11/1/2016	No	N/A	N/A
University of Zurich Raemistrasse 71 Zurich, 8006	300,193	5/23/2016 11/30/2016		Almost every aspect of cognition emerges from a rapid, free-flowing succession of highly structured patterns of neural activity maintained by large populations of neurons across many brain areas. In most circumstances of everyday life, it is rare for the brain to dwell in the same state for more than a fraction of a second, and yet, mainly because of technical limitations, much of cognitive neuroscience has arguably dealt with studying ‘snapshots’ of brain activity. As a consequence, researchers have accumulated a wealth of knowledge about what the responses of individual neurons or brain areas represent (e.g., orientation, faces, goals), but still mostly lack an understanding of how these responses relate and contribute to the inherently dynamic computations performed collectively by large networks of neurons. In this project, the University hopes to contribute to changing this state of affairs. The University researchers will exploit recent technical advances to record neural activity from the large number of neurons necessary to observe how the ‘state’ of the neural dynamics evolves from one instant to the next. The researchers will characterize the dynamics of responses in the prefrontal cortex, a brain area largely unique to primates that underlies the pronounced ability to flexibly choose among possible actions in response to ever-changing circumstances. The goal of this research is to develop a mechanistic model that can reproduce and explain how the neural dynamics observed in prefrontal cortex is controlled by contextual information, and how this dynamics ultimately leads to flexible decisions. To validate the model, the researchers will elicit small, almost imperceptible, “perturbations” of prefrontal activity, and compare their neural and behavioral effects to those predicted by the model. This quantitative approach will lead to a deeper understanding of prefrontal computations, and will contribute to finally achieving a mechanistic understanding of cognition.	11/1/2017	No	N/A	N/A
University of Zurich Winterthurerstrasse 190 CH-8057 Zurich, Switzerland	198,755	5/22/2015, 11/20/2015	187,464	Almost every aspect of cognition emerges from a rapid, free-flowing succession of highly structured patterns of neural activity maintained by large populations of neurons across many brain areas. In most circumstances of everyday life, it is rare for the brain to dwell in the same state for more than a fraction of a second, and yet, mainly because of technical limitations, much of cognitive neuroscience has arguably dealt with studying ‘snapshots’ of brain activity. As a consequence, researchers have accumulated a wealth of knowledge about what the responses of individual neurons or brain areas represent (e.g., orientation, faces, goals), but still mostly lack an understanding of how these responses relate and contribute to the inherently dynamic computations performed collectively by large networks of neurons. In this project, the University hopes to contribute to changing this state of affairs. The University researchers will exploit recent technical advances to record neural activity from the large number of neurons necessary to observe how the ‘state’ of the neural dynamics evolves from one instant to the next. The researchers will characterize the dynamics of responses in the prefrontal cortex, a brain area largely unique to primates that underlies the pronounced ability to flexibly choose among possible actions in response to ever-changing circumstances. The goal of this research is to develop a mechanistic model that can reproduce and explain how the neural dynamics observed in prefrontal cortex is controlled by contextual information, and how this dynamics ultimately leads to flexible decisions. To validate the model, the researchers will elicit small, almost imperceptible, “perturbations” of prefrontal activity, and compare their neural and behavioral effects to those predicted by the model. This quantitative approach will lead to a deeper understanding of prefrontal computations, and will contribute to finally achieving a mechanistic understanding of cognition.	11/1/2015 11/1/2016	No	N/A	N/A

Recipient Name	Recipient Address	Status	Purpose of Grant	Amount Payable
Adirondack Mountain Club	814 Goggins Road Lake George, NY 12845	PC	Employee matching	\$280
Albert Einstein College of Medicine, Inc.	1300 Morris Park Avenue Belfer 312 Bronx, NY 10461	PC	Corticocortical signaling between populations of neurons - Project 1	\$150,000
Albert-Ludwigs University of Freiburg	Fahnenbergplatz Freiburg, 79085	NC	Special Holonomy in Geometry, Analysis, and Physics	\$566,358
Alice Fong Yu Parents Association	1541 12th Avenue San Francisco, CA 94122	PC	Employee Matching	\$1,000
American Mathematical Society	201 Charles Street Providence, RI 02904	PC	AMS-Simons Travel Grants	\$1,053,000
American Mathematical Society	201 Charles Street Providence, RI 0295	PC	Universally Enhancing Math on the Web	\$150,000
American Museum of Natural History	Central Park West 79th Street NY, NY 10024	PC	Ancient metabolism: Austerity and the art of the steal	\$391,175
Animal Legal Defense Fund	525 East Cotati Avenue Cotati, CA 94931	PC	Employee Matching	\$100
Arizona Board of Regents, University of Arizona	P O Box 210158, Room 510 Tucson, AZ 85721-0158	PC	InSCOPE: Integrating high-resolution, spatial, and temporal 'omics data with environmental data from SCOPE cruises	\$451,838
ARTfront	WAGMAG, Brooklyn Art Guide 147 Roebling Street, Ground Floor Brooklyn, NY 11211	PC	Employee Matching	\$1,000
Aspen Center for Physics	700 W Gillespie Street Aspen, CO 81611	PC	Aspen Summer Program	\$50,000
Auburn University	310 Samford Hall Auburn University, AL 36849	PC	Stochastic dynamical systems arising from the applied sciences	\$28,000
Ball State University	2000 University Avenue Muncie, IN 47306	PC	Invariants of Legendrian knots	\$28,000
Baylor College of Medicine	One Baylor Plaza MS: BCM 310 Houston, TX 77030	PC	In Vivo Functional Analysis of Autism Candidate Genes	\$368,345
Baylor College of Medicine	One Baylor Plaza MS: BCM 310 Houston, TX 77030	PC	Canonical Computations in Autism	\$685,348
Baylor University	One Bear Place #97360 Waco, TX 76798-7360	PC	Rank One Perturbations, Anderson-type Hamiltonians and Cyclic Vectors	\$28,000
Baylor University	One Bear Place #97360 Waco, TX 76798-7360	PC	Fourier multipliers on von Neumann algebras	\$28,000
Bigelow Laboratory for Ocean Sciences	60 Bigelow Drive PO Box 461 East Boothbay, ME 04544	PC	Large-scale study of the genomic building blocks of marine bacterioplankton	\$803,986
Board of Regents of the University of Nebraska, University of Nebraska-Lincoln	2200 Vine Street 151 Prem S. Paul Research Center Lincoln, NE 68583-0861	PC	Collaboration on homology and representation theory of local rings	\$28,000
Board of Regents of the University of Nebraska, University of Nebraska-Lincoln	2200 Vine Street 151 Prem S. Paul Research Center Lincoln, NE 68583-0861	PC	Extremal Problems for Enumerative Graph Parameters	\$28,000
Board of Regents of the University of Nebraska, University of Nebraska-Lincoln	2200 Vine Street 151 Prem S. Paul Research Center Lincoln, NE 68583-0861	PC	Nonlocal Models in Continuum Mechanics	\$28,000
Botswana International University of Science and Technology	Private Bag 16 Palapye, 267	NC	Research Graduate Studies in Mathematics and its Applications: A Network Approach	\$45,000

Brandeis University	Office of Research Administration 415 South Street, MS-116 Waltham, MA 02454	PC	Building a Proportional Cell: Design Principles of Biological Size Control	\$195,247
Brandeis University	Office of Research Administration 415 South Street, MS-116 Waltham, MA 02454	PC	Enumerative Combinatorics	\$28,000
Brandeis University	415 South St Waltham, MA 02543-2728	PC	Building a Proportional Cell: Design Principles of Biological Size Control	\$292,871
Brigham and Women's Hospital, Inc.	75 Francis Street Boston, MA 02115	PC	Dissecting primary motor cortex circuit dysfunction in a mouse model of MeCP2 duplication syndrome	\$687,500
Brigham Young University	Brigham Young University A-285 ASB Campus Drive Provo, UT 84602	PC	Prime numbers in arithmetic progressions	\$28,000
Brooklyn Rail Inc.	95 Commercial Street, Suite 2 Brooklyn, NY 11222	PC	Employee Matching	\$1,000
Brown University	Office of Sponsored Projects Brown University 164 Angell Street, Box 1929 Providence, RI 02912	PC	Assessing thalamocortical circuit function in TSC1 and NHE6 mouse models	\$225,000
CA - 29/248 - University of California at San Francisco	3333 California Street, Suite 315 University of California Box 0692 San Francisco, CA 94143-0962	PC	Behavioral effects of fever and other illness on young children with autism - Project 1	\$180,000
California Institute of Technology	1200 E. California Blvd. M/C 273-6 Pasadena, CA 91125	PC	Simons Investigator in Physics	\$264,000
California Institute of Technology	1200 E. California Blvd. M/C 273-6 Pasadena, CA 91125	PC	Life from inside out: connecting geodynamics to the origins of life	\$114,000
California Institute of Technology	1200 E. California Blvd. M/C 273-6 Pasadena, CA 91125	PC	Analysis of autism-associated alleles in C. elegans	\$362,668
California Institute of Technology	1200 E. California Blvd. M/C 273-6 Pasadena, CA 91125	PC	Novel technology for behavioral phenotyping of autism mouse models	\$225,000
California Institute of Technology	1200 E. California Blvd. M/C 273-6 Pasadena, CA 91125	PC	Simons Investigator in Physics	\$594,000
California Institute of Technology	1200 E. California Blvd. M/C 273-6 Pasadena, CA 91125	PC	Simons Investigator in Physics	\$594,000
California Institute of Technology	1200 E. California Blvd. M/C 273-6 Pasadena, CA 91125	PC	Simons Investigator in Mathematics	\$594,000
California Institute of Technology	1200 E. California Blvd. M/C 273-6 Pasadena, CA 91125	PC	Group actions: Invariant Random Subgroups, Entropy and Genericity	\$28,000
California Institute of Technology	1200 E. California Blvd. M/C 273-6 Pasadena, CA 91125	PC	International Geobiology Course	\$642,000
California Institute of Technology	1200 E. California Boulevard Mail Code 211-15 Pasadena, CA 91125	PC	Comparative Planetary Taphonomy	\$1,004,208

California Institute of Technology	1200 E. California Blvd. M/C 201-15 Pasadena, CA 91125	PC	Simons Collaboration on the Non-perturbative Bootstrap	\$360,000
California Institute of Technology	1200 E. California Boulevard Mail Code 211-15 Pasadena, CA 91125	PC	N isotopes in stromatolites: Linking the N cycle to the origins of life	\$255,000
Carnegie Mellon University	5000 Forbes Ave, WQED Bldg Pittsburgh, PA 15213	PC	Interactome perturbation by large-scale mutagenesis to find risk variants - Project 2	\$47,813
Carnegie Mellon University	5000 Forbes Ave, WQED Bldg Pittsburgh, PA 15213	PC	Analysis of moving interface problems: dynamics, stability, and asymptotics	\$28,000
Carnegie Mellon University	5000 Forbes Avenue Pittsburgh, PA 15213	PC	Nonlinear dynamics in models of waves and clustering	\$132,000
Case Western Reserve University	10900 Euclid Avenue Cleveland, OH 44106-4919	PC	Cellular Blebbing and Amoeboid Cell Migration	\$28,000
Case Western Reserve University - School of Medicine	10900 Euclid Avenue Cleveland, OH 44106-4919	PC	A Novel Transcriptional Cascade Involved in Brain Overgrowth in ASD	\$35,000
Central Michigan University	Office of Research and Graduate Studies Central Michigan University 251 Foust Hall Mount Pleasant, MI 48859	PC	Crystals and Combinatorics	\$28,000
Charles A. and Anne Morrow Lindbergh Foundation	P.O. Box 861 Berkeley Springs, WV 25411	PC	Employee Matching	\$200
Children of Promise, NYC	54 MacDonough Street Brooklyn, NY 11216	PC	Employee Matching	\$10,000
Children's Hospital Boston	300 Longwood Avenue Boston, MA 02115	PC	Development of corticothalamic circuits of prefrontal cortex in mouse models of autism	\$225,000
Children's Hospital Boston	300 Longwood Avenue Boston, MA 02115	PC	Amniotic fluid and Cerebrospinal fluid-based signaling in ASD	\$225,000
Clemson University	Clemson University Research Division Strom Thurmond Institute, Suite 200 230 Kappa Street Clemson, SC 29634	PC	Toric partial orders: theory and applications	\$28,000
Cold Spring Harbor Laboratory	1 Bungtown Road Cold Spring Harbor, NY 11724	PC	16p11.2: Defining the gene(s) responsible (grant 1)	\$115,597
Cold Spring Harbor Laboratory	1 Bungtown Road Cold Spring Harbor, NY 11724	PC	Interaction of sensory signals and internal dynamics during decision-making	\$100,000
Cold Spring Harbor Laboratory	1 Bungtown Road Cold Spring Harbor, NY 11724	PC	Genetic Contribution to Autism	\$7,078,447
Cold Spring Harbor Laboratory	1 Bungtown Road Cold Spring Harbor, NY 11724	PC	Applications of Genomics to Breast Cancer Detection, Risk Assessment and Treatment Response	\$7,317,664
College of Charleston	66 George Street Charleston, SC 29424	PC	Analytical and numerical tools for stability analysis	\$28,000
College of Staten Island/CUNY jointly with Research Foundation/CUNY	College of Staten Island/CUNY Office of Sponsored Programs and Research 2800 Victory Blvd., Bldg. 1A-211 Staten Island, NY 10314	PC	Research on Stochastic Processes	\$28,000

College of Staten Island/CUNY jointly with Research Foundation/CUNY	College of Staten Island/CUNY Office of Sponsored Programs and Research 2800 Victory Blvd., Bldg. 1A-211 Staten Island, NY 10314	PC	Asymptotic knot theory	\$28,000
College of Staten Island/CUNY jointly with Research Foundation/CUNY	College of Staten Island/CUNY Office of Sponsored Programs and Research 2800 Victory Blvd., Bldg. 1A-211 Staten Island, NY 10314	PC	Geometric knot theory	\$28,000
Colorado State University	Sponsored Programs Campus Delivery Box 2002 Fort Collins, CO 80523-2002	PC	Tautological intersection theory on moduli spaces	\$28,000
Columbia University in the City of New York	630 West 168th Street P&S 10-508 New York, NY 10032	PC	Transforming a neural representation into a memory (Grant)	\$120,797
Columbia University Medical Center	Sponsored Projects Administration Columbia University 630 West 168th Street, Box 49 New York, NY 10032	PC	Autophagy pathway alterations in lymphocytes: Potential biomarkers for autism?	\$229,551
Columbia University Medical Center	Sponsored Projects Administration Columbia University 630 West 168th Street, Box 49 New York, NY 10032	PC	Delineating Cortico-Spinal Circuits for Skilled Motor Behavior	\$225,000
Columbia University Medical Center	Sponsored Projects Finance 615 West 131st Street Mail Code 8749 New York, NY 10027	PC	(SFARI-VIP) Simons Variation in Individuals Project (VIP) Principal Investigator	\$200,518
Commissariat à l'Energie Atomique et aux Energies alternatives	CEA Saclay /I2BM PC 141 Orsay Gif sur Yvette, 91191	NC	Cracking the glass problem	\$493,440
Community Roots Charter School	510 Saint Edwards Street, Third Floor Brooklyn, NY 11205	PC	Employee Matching	\$800
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Interactome perturbation by large-scale mutagenesis to find risk variants – Core	\$287,978
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	How is Performance Evaluation Encoded in the Brain?	\$159,150
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Geometric and Topological Invariants in Equivariant Symplectic Geometry	\$28,000
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Simons Society of Fellows - Junior Fellow	\$263,362
Cornell University	373 Pine Tree Road Ithaca, NY 14850	PC	Simons Collaboration on the Non-perturbative Bootstrap	\$360,000
Corporation for National and Community Service	250 E Street, SW Washington, DC 20525	PC	Employee Matching	\$200
Covenant House	5 Penn Plaza, 2nd Floor New York, NY 10001	PC	Employee Matching	\$2,000
DePaul University	1 East Jackson Boulevard Chicago, IL 60604-2287	PC	Cohomology and Support Varieties	\$28,000
Dissecting inhibitory microcircuits of Scn1a+/- mice during learning	550 Cumberland Piece 027 Ottawa, Ontario K1N 5Y3	NC	Dissecting inhibitory microcircuits during learning in a mouse model of Dravet syndrome	\$70,000

Doctors Without Borders USA	333 7th Avenue, 2nd Floor New York, NY 10001-5004	PC	Employee Matching	\$2,000
Duke University	2200 W. Main Street, Suite 710 Durham, NC 27705	PC	Special Holonomy in Geometry, Analysis, and Physics	\$1,588,500
Duke University	2200 W. Main Street, Suite 710 Durham, NC 27705	PC	Math+X Investigator	\$1,350,000
Duke University	2200 W. Main Street, Suite 710 Durham, NC 27705	PC	Cracking the glass problem	\$438,710
Duke University Medical Center	Suite 820, Erwin Square 2200 West Main Street Durham, NC 27705	PC	Does Astrocyte Dysfunction Contribute to Synaptic Pathologies in Autism?	\$225,000
ECOLE NORMALE SUPERIEURE PARIS	45 rue d'Ulm Paris,75230/05	NC	Simons Collaboration on the Non- perturbative Bootstrap	\$421,711
Ecole Polytechnique Fédérale de Lausanne (EPFL)	Building CE 3316, Station 1 Lausanne, 1015	NC	Cracking the glass problem	\$554,710
Ecole Polytechnique Fédérale de Lausanne (EPFL)	Building CE 3316, Station 1 Lausanne, 1015	NC	Simons Collaboration on the Non- perturbative Bootstrap	\$450,000
Emory University	1599 Clifton Road NE, 4th Floor Mailstop: 1599-001-1BA Atlanta, GA 30322	PC	Extremal and Probabilistic Combinatorics	\$28,000
Emory University	1599 Clifton Road NE, 4th Floor Mailstop: 1599-001-1BA Atlanta, GA 30322	PC	Simons Simplex Collection Support Grant	\$12,257
European Mathematical Society	Euroopan Matemaattinen Seura Ry P.O. Box 68 Helsinki, 00014	NC	EMS & CDC and Simons Foundation for Africa Program	\$250,000
Florida State University Research Foundation, Inc.	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Provably Stable Spectral Element Methods for Advection Dominated Problems	\$28,000
Florida State University Research Foundation, Inc.	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Topology and dynamics in low dimensions	\$28,000
Florida State University Research Foundation, Inc.	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Mathematical Models of Cortical Folding in Development, Aging, and Disease	\$28,000
Florida State University Research Foundation, Inc.	2000 Levy Avenue, Suite 351 PO Box 3062744 Tallahassee, FL 32310-5792	PC	Geometric Aspects of Number Theory and Representations of 3-manifold Groups	\$28,000
Fondazione Istituto Italiano di Tecnologia	Via Morego 30 Genova,16163	NC	Neurobiological basis of connectivity deficits in autism	\$198,572
Georgia Institute of Technology	505 10th Street, Suite 300 Atlanta, GA 30332	PC	Collective bacterial decision-making	\$299,888
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Collective bacterial decision-making	\$199,925
Georgia Tech Research Corporation	505 10th Street, NW Atlanta, GA 30332-0420	PC	Geometry of sums of selfadjoint operators	\$28,000
GiveDirectly	P.O. Box 3221 New York, NY 10008	PC	Employee Matching	\$600
Harvard Medical School	1033 Massachusetts Ave, 5th Floor Boston, MA 02138	PC	Probing perception and sensorimotor coupling in mouse models of autism	\$300,000
Heifer Project International	One World Ave Little Rock, AK 72201	PC	Employee Matching	\$1,000

Hofstra University	144 Hofstra University, 200 West Library Wing Hempstead, NY 11549	PC	Randomness, computable analysis, and effective structure theory	\$28,000
Hunter College of CUNY jointly with Research Foundation of CUNY	695 Park Avenue New York, NY 10021	PC	Equations and Model Theory of Free Associative Algebras and Group Algebras	\$28,000
Imperial College, London	Exhibition Road South Kensington, W120NN	NC	Special Holonomy in Geometry, Analysis, and Physics	\$1,729,635
Indiana University (Bloomington and Regional Campuses)	509 E 3rd Street Bloomington, IN 47401-3654	PC	Homology cobordism of 3-manifolds and concordance of knots	\$28,000
Indiana University (Indianapolis)	Indiana University Office of Research Administration 980 Indiana Avenue, Room 2232 Indianapolis, IN 46202-2915	PC	Low-Dimensional Dynamical Systems	\$28,000
Indiana University (Indianapolis)	Indiana University Office of Research Administration 980 Indiana Avenue, Room 2232 Indianapolis, IN 46202-2915	PC	Bethe Ansatz and Applications	\$28,000
Institute for Advanced Study	Einstein Drive Princeton, NJ 08540-0631	PC	Simons Collaboration on Algorithms and Geometry - PI	\$186,781
Institute for Advanced Study	Einstein Drive Princeton, NJ 08540-0631	PC	It from Qubit: Quantum Fields, Gravity, and Information	\$16,300
Institute of Physics, Polish Academy of Sciences	Al. Lotników 32/46 Warszawa, PL-02-668	NC	Mechanistic studies of prebiotically plausible UV-induced chemistry	\$219,800
Institute of Science and Technology Austria	Am Campus 1 Klosterneuburg, 3400	NC	Probing the development and reversibility of autism-related phenotypes in SETD5 conditional knockout mice	\$199,348
International Mathematical Union	Markgrafenstr. 32 Berlin, 10117	NC	IMU-Simons African Fellowship Program	\$220,000
Iowa State University Foundation	2505 University Blvd Ames, IA 50010	PC	Using eigenvalues to understand graph structures	\$28,000
Jewish Women's Archive	138 Harvard Street Brookline, MA 02446	PC	Employee matching	\$200
Joan & Sanford I. Weill Medical College of Cornell University	1300 York Avenue, Box 89 New York, NY 10065	PC	Behavioral effects of fever and other illness on young children with autism –Core	\$351,763
Johns Hopkins University	Johns Hopkins University Central Lock Box Bank of America 100 West 33rd Street New York, NY 10001	PC	Mapping 3D genomic architecture in human developing neurons to assess the contribution of noncoding risk variants for autism	\$75,000
Johns Hopkins University	Johns Hopkins University Central Lock Box Bank of America 100 West 33rd Street New York, NY 10001	PC	Simons Collaboration on the Non-perturbative Bootstrap	\$360,000
Johns Hopkins University (Homewood) School of Arts and Sciences	3400 N Charles Street Baltimore, MD 21218	PC	Geometric analysis in conformal geometry	\$28,000
Johns Hopkins University School of Medicine	Johns Hopkins University, SOM 733 North Broadway, Suite 117 Broadway Research Building Baltimore, MD 21205	PC	Development of radiotracers for PET imaging of GABA-B receptors in non-human primates	\$74,155

Kaiser Foundation Research Institute, a Division of Kaiser Foundation Hospitals	1800 Harrison Street, 16th Floor Oakland, CA 94612	PC	ASD Family Biobank Program	\$544,804
King's College London	Finance Department 8th Floor - Room 8.14 James Clerk Maxwell Building 57 Waterloo Road London, N/A SE1 8WA	NC	Special Holonomy in Geometry, Analysis, and Physics	\$686,301
King's College London	Finance Department 8th Floor - Room 8.14 James Clerk Maxwell Building 57 Waterloo Road London, N/A SE1 8WA	NC	Special Holonomy in Geometry, Analysis, and Physics	\$446,749
Købehavns Universitet (University of Copenhagen)	Nørregade Copenhagen, DK1017	NC	Niels Bohr International Academy	\$375,000
Le Centre National de la Recherche Scientifique	CNRS 16 rue Pierre et Marie Curie Paris, 75005	NC	Cracking the glass problem	\$561,750
Le Centre National de la Recherche Scientifique	CNRS 16 rue Pierre et Marie Curie Paris, 75005	NC	Cracking the glass problem	\$529,015
Le Centre National de la Recherche Scientifique	CNRS 16 rue Pierre et Marie Curie Paris, 75005	NC	Cracking the glass problem	\$357,840
Le Centre National de la Recherche Scientifique	CNRS 16 rue Pierre et Marie Curie Paris, 75005	NC	Cracking the glass problem	\$503,370
Life Sciences Research Foundation	3520 San Martin Drive, rm 333 Baltimore, MD 21218	PC	Life Sciences Research Foundation Fellowships	\$1,295,000
Louisiana State University A&M College (LSU)	202 Himes Hall Baton Rouge, LA 70803	PC	Phuc Nguyen's Application to Simons Foundation Collaboration Grants	\$28,000
Louisiana State University A&M College (LSU)	202 Himes Hall Baton Rouge, LA 70803	PC	The geometry of non-positively curved groups	\$28,000
Magic Incorporated	Po Box 15894 Stanford, CA 94309	PC	Employee Matching	\$400
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Seeking Evidence of Earth's Earliest Biogeochemical Cycles	\$117,865
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Clouds in Exoplanet Atmospheres - Are They Blocking our View of Life Below?	\$85,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Neural Circuit Dynamics for Sequence and Variability	\$150,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Simons Investigator in Mathematics	\$594,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	Equvariant spectral theory	\$28,000
Massachusetts Institute of Technology	77 Massachusetts Avenue Cambridge, MA 02139-4307	PC	The new Simons Center for the Social Brain	\$2,120,244
Massachusetts Institute of Technology	77 Massachusetts Avenue Canbrigg, MA 02139-4307	PC	THE UV ENVIRONMENT FOR THE ORIGIN AND EVOLUTION OF LIFE	\$242,252
Massachusetts Institute of Technology	77 Massachusetts Avenue, W98-300 Cambridge, MA 021394307	POF	Advancing a Biomarker of Reduced GABAergic Action in the Autistic Brain	\$156,334
Massachusetts Institute of Technology (MIT)	600 Memorial Drive, W98, 2nd Floor Cambridge, MA 02139-4822	PC	Systems Ecology of Particle-Attached Microbial Communities in the Ocean	\$359,410

Massachusetts Institute of Technology (MIT)	77 Massachusetts Avenue, W98-300 Cambridge, MA 02139	PC	High-throughput confocal imaging of microbial communities at micro-scales	\$256,762
McGill University Health Centre- Montreal Children's Hospital	2300 Tupper Street, Suite C-244 Montreal, Québec H3H 1P3	NC	Simons Simplex Collection Support Grant	\$10,000
Medical Research Council Laboratory of Molecular Biology	Francis Crick Avenue Cambridge Biomedical Campus Cambridge, CB2 0QH	NC	Prebiotic Systems Chemistry	\$100,000
Medical Research Council Laboratory of Molecular Biology	North Star House, North Star Avenue Swindon, SN1	NC	Application for funds to purchase a 400 MHz NMR spectrometer	\$311,499
Michigan State University	Hannah Administration 426 Auditorium Road, Room 2 East Lansing, MI 48824	PC	Microscopic Foundations For Macroecological Patterns	\$199,861
Mississippi State University	P.O. Box 6156 133 Etheredge Hall 449 Hardy Road Mississippi State, MS 39762	PC	High order numerical methods on complex geometries	\$28,000
National Academy of Sciences	500 Fifth Street, NW Washington, DC 20001	PC	Ralph J. and Carol M. Cicerone Endowment for NAS Missions	\$6,666,667
New York Hall of Science	47-01 111th Street Queens, NY 11368	PC	NYSCI Design Make Playground for the Community	\$1,500,000
New York Harbor Foundation	New York Harbor Foundation 10 South Street, Slip 7 New York, NY 10004	PC	The Billion Oyster Project (BOP) Public Engagement Program - Community Reefs	\$829,590
New York Structural Biology Center	New York Structural Biology Center 89 Convent Avenue New York, NY 10027	PC	New York Structural Biology Center Support Grant	\$7,500,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Society of Fellows - Senior Fellow	\$60,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Collaboration on Algorithms and Geometry - PI	\$62,160
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Collaboration on Algorithms and Geometry - PI	\$181,484
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Society of Fellows - Junior Fellow	\$891
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Society of Fellows - Junior Fellow	\$891
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	The Rosetta Developers Meeting: Macromolecular Modeling and Design	\$800,000
New York University	665 Broadway, Suite 801 New York, NY 10012	PC	Simons Society of Fellows - Senior Fellow	\$60,000
New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Exploring role of Th17-inducing maternal intestinal bacteria in ASD - Project 1	\$232,873
New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Simons Society of Fellows - Junior Fellow	\$266,343

New York University School of Medicine	Sponsored Programs Administration One Park Avenue, 6th Floor New York, NY 10016	PC	Simons Society of Fellows - Senior Fellow	\$60,000
Newark Academy	91 South Orange Avenue Livingston, NJ 07039	PC	Employee matching	\$400
North Carolina State University	2701 Sullivan Drive, Suite 240 Campus Box 7514 Raleigh, NC 27695-7514	PC	Multi-scale modeling of viral infection, evolution and treatment	\$28,000
North Carolina State University	NCSU Office of Contracts of Grants Attn: Sajan George 2701 Sullivan Drive, STE 240 Raleigh, NC 27695-7514	PC	Spatiotemporal dissection of UBE3A with engineered human cerebral organoids	\$70,000
Northeastern University	360 Huntington Avenue 490 RP Boston, MA 02115	PC	Discrete Symmetries in Geometry and Combinatorics	\$35,000
Northeastern University	360 Huntington Avenue 490 RP Boston, MA 02115	PC	Index theory on non-compact manifolds	\$35,000
Northwestern University - Evanston Campus	1801 Maple Ave. 2nd Floor, Suite 2410 Evanston, IL 60201	PC	Simons Investigator in MMLS	\$264,000
Northwestern University - Evanston Campus	1801 Maple Ave. 2nd Floor, Suite 2410 Evanston, IL 60201	PC	Simons Investigator in the Mathematical Modeling of Living Systems	\$330,000
Oklahoma State University	203 Whitehurst Stillwater, OK 74078	PC	Collaborations in Combinatorial Commutative Algebra	\$28,000
Old Dominion University Research Foundation	4111 Monarch Way Suite 204 Norfolk, VA 23508-2561	PC	mathematical studies of smectic A and bent-core liquid crystals	\$28,000
Oregon State University	B308 Kerr Administration Bldg. Corvallis, OR 97331-2140	PC	Behavior of Solutions to Equations of Fluid Motion	\$28,000
Pacific University	2043 College Way Forest Grove, OR 97116	PC	Matroids in an International Research Community: generating new researchers	\$28,000
Perimeter Institute	31 Caroline St. N. Waterloo, Ontario N2L 2Y5	NC	Simons Collaboration on the Non-perturbative Bootstrap	\$360,000
Pioneer Works Art Foundation	159 Pioneer Street Brooklyn, NY 11231	PC	Sciences at Pioneer Works	\$300,000
Poly Prep Country Day School	9216 Seventh Avenue Brooklyn, NY 11228	PC	Employee Matching	\$2,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Organic abundance distributions and chemistry during planet formation	\$300,051
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Toward Computational Neuroscience of Global Brains	\$100,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Dynamics of growth and division in prebiotic vesicles	\$146,900

President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Simons Investigator in Physics	\$594,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Simons Investigator in Computer Science	\$594,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Molecular characterization of temperature sensitive circuits in the mouse	\$180,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Avenue Suite 500 Cambridge, MA 021385369	PC	Simons Fellows in Theoretical Physics Application: Andrew Strominger	\$150,000
President & Fellows of Harvard College	Office for Sponsored Programs 1033 Massachusetts Ave, 5th Floor Cambridge, MA 02138	PC	Geologic production of polymer-forming solvents on the prebiotic Earth	\$253,200
Princeton University	P.O. Box 36 Princeton, NJ 08544-0036	PC	Simons Collaboration on Algorithms and Geometry - Director	\$145,114
Princeton University	P.O. Box 36 Princeton, NJ 08544-0036	PC	Simons Collaboration on Algorithms and Geometry - PI	\$80,000
Princeton University	P.O. Box 36 Princeton, NJ 08544-0036	PC	Simons Collaboration on Algorithms and Geometry - PI	\$120,000
Princeton University	P.O. Box 36 Princeton, NJ 08544-0036	PC	Relating dynamic cognitive variables to neural population activity	\$90,000
Princeton University	P.O. Box 36 Princeton, NJ 08544-0036	PC	Searching for universality in the state space of neural networks	\$40,000
Princeton University	P.O. Box 36 Princeton, NJ 08544-0036	PC	Ca and Mg isotopic indicators in ancient carbonates	\$85,000
Princeton University	P.O. Box 36 Princeton, NJ 08544-0036	PC	Studies in Arithmetic Algebraic Geometry	\$28,000
Princeton University	P.O. Box 36 Princeton, NJ 08544-0036	PC	A New Framework for Ecological Kinetics in Natural Environments	\$172,821
Princeton University	P.O. Box 36 Princeton, NJ 08544-0036	PC	Simons Investigator in Physics	\$594,000
Princeton University	P.O. Box 36 Princeton, NJ 08544-0036	PC	Neural mechanisms underlying flexible decision-making	\$159,150
Princeton University	P.O. Box 36 Princeton, NJ 08544-0036	PC	Dissecting neural circuits that support social behavior.	\$159,150

Princeton University	P.O. Box 36 Princeton, NJ 08544-0036	PC	Simons Collaboration on the Non-perturbative Bootstrap	\$360,000
Princeton University	P.O. Box 35 Princeton, NJ 08544-0035	PC	A New Framework for Ecological Kinetics in Natural Environments	\$259,232
Provide	PO Box 410164 Cambridge, MA 02141	PC	Employee Matching	\$2,000
PS 183 Robert Louis Stevenson	PS183 PTA Family Giving Fund c/o PS 183 - Robert Louis Stevenson 419 East 66 Street New York, NY 10065	PC	Employee Matching	\$2,600
PS033M Chelsea Prep PTA Inc	281 9th Avenue New York, NY 10001	PC	Employee Matching	\$1,000
Purdue University Incoming Electronic Payments	155 South Grant St Young Hall West Lafayette, IN 47906 West Lafayette , IN 47907-2114	PC	Modeling biological systems' response to environmental and internal stimuli	\$35,000
Queens College/CUNY jointly with Research Fdn/CUNY	65-30 Kissena Blvd. Flushing, NY 11367	PC	Langlands Parameters, Converse Problems, and Rectifiers	\$28,000
Regents of the University of Minnesota - Twin Cities	450 McNamara Alumni Center 2003 Campus Delivery Code 200 Oak Street SE Minneapolis, MN 55455	PC	Research on classical and quantum superintegrable systems	\$28,000
Regents of the University of Minnesota - Twin Cities	450 McNamara Alumni Center 2003 Campus Delivery Code 200 Oak Street SE Minneapolis, MN 55455	PC	Discrepancy theory and harmonic analysis	\$28,000
Research Foundation of CUNY on behalf of Advanced Science Research Center	230 West 41st Street, 7th FLOOR New York, NY 10036	PC	Searching peptide sequence space for pre-biotic aggregates and catalysts	\$255,000
Research Foundation of CUNY on behalf of Lehman College	250 Bedford Park Boulevard West Bronx, NY 10468-1527	PC	Applications of Whitney towers in low-dimensional topology	\$28,000
Research Foundation of SUNY - University at Albany	Office for Sponsored Programs/MSC 312 1400 Washington Avenue Albany, NY 12222	PC	Algebraic K-theory and equivariant stable homotopy theory	\$28,000
Research Foundation of SUNY - University at Albany	Office for Sponsored Programs/MSC 312 1400 Washington Avenue Albany, NY 12222	PC	New Theory and Algorithms For Nonstandard Predication Problems	\$28,000

Research Foundation of SUNY - University at Albany	Office for Sponsored Programs/MSC 312 1400 Washington Avenue Albany, NY 12222	PC	Compactness of operators, analytic function spaces, and frame theory	\$28,000
Research Foundation of SUNY - University at Albany	Office for Sponsored Programs/MSC 312 1400 Washington Avenue Albany, NY 12222	PC	Collaboration Grants for Mathematicians	\$28,000
Rider University	2083 Lawrenceville Road Lawrenceville, NJ 08648	PC	The topology of toric orbifolds and related spaces	\$28,000
Riverkeeper	20 Secor Road Ossining, NY 10562	PC	Employee matching	\$200
Robin Hood	826 Broadway, 9th Floor New York, NY 10003	PC	Employee Matching	\$500
Room to Read	111 Sutter Street, 16th Floor San Francisco, CA 94104	PC	Employee Matching	\$400
Royal Swedish Academy of Sciences	Lilla Frescativagen 4A Stockholm, 10405	NC	Support for two larger conferences at Institut Mittag-Leffler	\$200,000
Rutgers, The State University of New Jersey	Office of Research & Sponsored Programs 33 Knightsbridge Road, 2nd Floor, East Wing Piscataway, NJ 088543925	PC	Shrinkage procedures for point and predictive density estimation	\$28,000
Rutgers, The State University of New Jersey	Office of Research & Sponsored Programs 33 Knightsbridge Road, 2nd Floor, East Wing Piscataway, NJ 088543925	PC	Group symmetry and applications	\$28,000
Rutgers, The State University of New Jersey	Grant and Contract Accounting 33 Knightsbridge Road, 2nd Floor, East Wing Piscataway, NJ 08854-3925	PC	Nonlocal geometric flow with physical and biological applications	\$53,572
Saint Louis University	221 North Grand Boulevard St. Louis, MO 63103	PC	Simons Foundation Collaboration Grant Proposal for Srivastava	\$28,000
Sapienza University of Rome	Corso della Repubblica, 79 Latina, 04100	NC	Cracking the glass problem	\$601,965
Science Festival Foundation	230 West 41st Street, Suite 1600 New York, NY 10036	PC	World Science Festival Outright and Matching Grant	\$8,400,000
Seattle University	901 12th Ave P.O. Box 222000 Seattle, WA 98122	PC	Allison Henrich Knot Theory Collaboration	\$28,000
Seattle University	901 12th Ave P.O. Box 222000 Seattle, WA 98122	PC	Geometric flows of asymptotically hyperbolic and edge metrics	\$28,000
Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences	320 Yueyang Road Shanghai, 200031	NC	Imaging cortico-subcortical circuits during perceptual decision making	\$159,150

Shining Hope for Communities	175 Varick St. 5th Floor New York, NY 10014	PC	Employee Matching	\$240
Sloan-Kettering Institute for Cancer Research	1275 York Avenue New York, NY 10065	PC	Rebooting the gut microbial ecosystem using bacterial dueling	\$60,000
Smithsonian Astrophysical Observatory	60 Garden Street Cambridge, MA 02138	PC	Exploring the Cosmic Origins of Chiral Molecules	\$255,000
Smithsonian Tropical Research Institute	111 Jefferson Drive SW Quad Suite 3123, 705 Washington, DC 20013-7012	PC	The Role of Microbiomes in Shaping the Ecology and Evolution of Tropical Forest Ecosystems	\$4,500,000
Southern Illinois University Carbondale	Southern Illinois University Office of Sponsored Projects Administration 900 S. Normal Ave. SIUC Mailcode 4709 Carbondale, IL 62901-4302	PC	Representations of p-adic groups and Iwasawa modules	\$28,000
Southern Methodist University	Southern Methodist University, Office of Research and Graduate Studies 6425 Boaz Lane, Suite 101 Dallas, TX 75205	PC	Evolution dynamics of ensemble averages in turbulence	\$28,000
Staten Island Children's Theatre Association of the Staten Island Mental Health Society	669 Castleton Ave Staten Island, NY 10301	PC	Employee Matching	\$280
Stichting Katholieke Universiteit	Heyendaalseweg 135 Nijmegen, 6525EZ	NC	Influence of molecular structure on dynamics of complex reaction networks	\$600,000
Stony Brook Foundation, Inc.	230 Administration Stony Brook University Stony Brook, NY 11794-1188	PC	Simons Math/Physics Operating Fund	\$136,674
Stony Brook Foundation, Inc.	230 Administration Stony Brook University Stony Brook, NY 11794-1188	PC	The Campaign for Stony Brook	\$12,500,000
Stony Brook University	330 Administration Stony Brook, NY 11794-1601	PC	Simons Collaboration on the Non-perturbative Bootstrap	\$1,187,000
Stony Brook University	330 Administration Stony Brook, NY 11794-1601	PC	Special Holonomy in Geometry, Analysis, and Physics	\$679,145
Stony Brook University	330 Administration Stony Brook, NY 11794-1601	PC	Special Holonomy in Geometry, Analysis, and Physics	\$135,332
Syracuse University	Office of Sponsored Programs 211 Lyman Hall Syracuse, NY 13244-1200	PC	Geometric Function Theory in Several Complex Variables and Complex Geometry	\$28,000
Syracuse University	Office of Sponsored Programs 211 Lyman Hall Syracuse, NY 13244-1200	PC	Simons Investigator in MMLS	\$264,000
Syracuse University	Office of Sponsored Programs 211 Lyman Hall Syracuse, NY 13244-1200	PC	Cracking the glass problem	\$477,758

Syracuse University	102 Archbold Syracuse University Syracuse, NY 13244-1140	PC	Simons Investigator in the Mathematical Modeling of Living Systems	\$330,000
Terreform ONE Corp	63 Flushing Ave. Unit 241 Brooklyn, NY 11205	PC	Terreform New Lab Residency Gift	\$79,000
Texas A&M University	Sponsored Research Services 400 Harvey Mitchell Parkway S., Ste 300 College Station, TX 77845	PC	Number theory related to special values of L-functions and modular forms	\$28,000
Texas A&M University	Sponsored Research Services 400 Harvey Mitchell Parkway S., Ste 300 College Station, TX 77845	PC	Groups and dynamical systems	\$28,000
Texas A&M University-Commerce	P.O. Box 3011 Commerce, TX 75429	PC	Biharmonic maps and biharmonic submanifolds	\$28,000
Texas Tech University	349 Administration Building Box 41035 Lubbock, TX 79409	PC	Homological studies of local rings	\$28,000
The Art of Problem Solving Foundation	55 Exchange Place, Suite 603 New York, NY 10005	PC	Bridge to Enter Advanced Mathematics (BEAM) initiative	\$300,000
The Board of Regents of the University of Oklahoma (University of Oklahoma)	Office of Research Services 201 Stephenson Parkway Five Partners Place, Suite 3100 Norman, OK 73019-9705	PC	Asymptotic Geometry of Subgroups of Non-Positively Curved Groups	\$28,000
The Board of Trustees of the Leland Stanford Junior University (Stanford)	3160 Porter Drive, Suite 100 Palo Alto, CA 94304	PC	Towards a theory of multi-neuronal dimensionality, dynamics and measurement	\$60,000
The Board of Trustees of the Leland Stanford Junior University (Stanford)	3160 Porter Drive, Suite 100 Palo Alto, CA 94304	PC	Atomistic exploration of abiogenesis with a nanoreactor	\$168,920
The Board of Trustees of the Leland Stanford Junior University (Stanford)	3160 Porter Drive, Suite 100 Palo Alto, CA 94304	PC	Simons Investigator in MMLS	\$264,000
The Board of Trustees of the Leland Stanford Junior University (Stanford)	3160 Porter Drive, Suite 100 Palo Alto, CA 94304	PC	Gas Dynamics and Kinetic Theory	\$28,000
The Board of Trustees of the Leland Stanford Junior University (Stanford)	Stanford University Lockbox P.O. Box 44253 San Francisco, CA 94144-4253	PC	Simons Investigator in the Mathematical Modeling of Living Systems	\$330,000
The Board of Trustees of the Leland Stanford Junior University (Stanford)	616 Serra Street, Suite 3 Stanford, CA 94305	PC	Linking modern microbial lipid synthesis and the primordial membrane	\$319,940
The Board of Trustees of the University of Illinois - Chicago	1737 W. Polk St M/C 672 AOB 304 Chicago, IL 60612-7227	PC	First order and infinitary model theory	\$28,000
The Board of Trustees of the University of Illinois - Chicago	1737 W. Polk St M/C 672 AOB 304 Chicago, IL 60612-7227	PC	Combinatorial Knot Theory	\$28,000
The Board of Trustees of the University of Illinois - Chicago	1737 W. Polk St M/C 672 AOB 304 Chicago, IL 60612-7227	PC	Collaboration Grant 2016 - Whyte	\$28,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Model Theory for Structures from Functional Analysis	\$28,000

The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Number theory and automorphic forms	\$28,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Topics in Markov Processes	\$28,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Optimal Energies in Spectral Theory and Wavelet Frames in Harmonic Analysis	\$28,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Symplectic rigidity and Hamiltonian dynamics	\$28,000
The Board of Trustees of the University of Illinois at Urbana-Champaign	South Research Par MC-685 1901 South First Street, Suite A Champaign, IL 61820	PC	Simons Collaboration on the Many Electron Problem - PI, Monte Carlo Group	\$120,278
The City College of New York	160 Convent Avenue New York, NY 10031	PC	Localized topological pressure and the geometry of rotation sets	\$28,000
The City College of New York	160 Convent Avenue New York, NY 10031	PC	Unique continuation properties of the Schrodinger operator	\$28,000
The Curators of the University of Missouri	Office of Sponsored Programs Administration 115 Business Loop 70W, Mizzou North, Room 501 Columbia, MO 65211	PC	Boundary Problems and Singular Integrals on Rough Subdomains on Manifolds	\$28,000
The Curators of the University of Missouri	Office of Sponsored Programs Administration 115 Business Loop 70W, Mizzou North, Room 501 Columbia, MO 65211	PC	Research in geometric scattering theory	\$28,000
The Curators of the University of Missouri	Office of Sponsored Programs Administration 115 Business Loop 70W, Mizzou North, Room 501 Columbia, MO 65211	PC	Simons Simplex Collection Support Grant	\$10,000
The FamilieSCN2a Foundation	P.O. Box 75 Granby, MA 01033	PC	FamilieSCN2a Foundation Family and Professional Conference	\$10,000
The Florida International University Board of Trustees	11200 SW 8th Street MARC-430 Miami, FL 33199	PC	Nonnegative Signal Separation: Sparsity, Algorithms, and Applications	\$28,000
The George Washington University	Office of Vice President for Research Rice Hall 2121 Eye St. NW Room 601 Washington, DC 20052	PC	Computability in algebraic structures	\$28,000
The Howard University Inc.	Howard University Research Administrative Services 525 Bryant Street NW Suite 137 Washington, DC 20059	PC	Representations of metaplectic groups	\$28,000
The Jane Coffin Childs Memorial Fund for Medical Research	333 Cedar Street P.O. Box 208000 New Haven, CT 06520-8000	PC	2015 Jane Coffin Childs Memorial Fund for Medical Research Fellowship Grant	\$6,000

The Jane Coffin Childs Memorial Fund for Medical Research	333 Cedar Street P.O. Box 208000 New Haven, CT 06520-8000	PC	2016 Jane Coffin Childs Memorial Fund for Medical Research Fellowship Grant	\$275,500
The Nature Conservancy	201 Mission Street, 4th Floor San Francisco, CA 94105	PC	Employee Matching	\$600
The Ohio State University	1960 Kenny Road Columbus, OH 43210	PC	The Classification of Finite Simple Groups	\$28,000
The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	The RNA World inside compartments: A study of formation and functions.	\$168,700
The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	Dissecting phenotypic heterogeneity associated with 16p12.1 deletion	\$225,000
The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	Cocycles and rigidity in hyperbolic dynamics	\$28,000
The Pennsylvania State University	Office of Sponsored Programs 110 Technology Center University Park, PA 16802	PC	Analytic Number Theory	\$28,000
THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN	1 College Green Dublin, 2	NC	Simons Foundation Visiting Professors and Scholars at the HMI Dublin	\$499,275
THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN	1 College Green Dublin, 2	NC	Fever & the brain in autism: temperature vs. inflammatory effects	\$383,978
THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN	Trinity College Dublin 5 College Green Dublin, 2	NC	Translational control by RBFox1: investigating its mechanisms and functions	\$70,000
The Rector and Visitors of the University of Virginia	Office of Sponsored Programs P.O. Box 400195 Charlottesville, VA 22904-4195	PC	Right-angled Artin subgroups of real algebraic groups	\$28,000
The Regents of New Mexico State University	Office of Grants and Contracts PO Box 30002 MSC OGC Anderson Hall E1200 1050 Stewart Street Las Cruces, NM 88003-8002	PC	Topological-defects in nonlinear elliptic problems	\$28,000
The Regents of the University of California (Irvine)	General Accounting Bi Sci Building III, Suite 1400 Irvine, CA 92697-1050	PC	Evaluating TNA as a Pre-RNA World Catalyst	\$255,000
The Regents of the University of California (University of California Davis)	University of California Office of Research / Sponsored Programs 1850 Research Park Drive, Suite 300 Davis, CA 95618	PC	Mechanisms of Context-Dependent Neural Integration and Short-Term Memory	\$100,000

The Regents of the University of California (University of California Davis)	University of California Office of Research / Sponsored Programs 1850 Research Park Drive, Suite 300 Davis, CA 95618	PC	Assessing the functional effects of enhancer mutations identified in the Simons Simplex Collection via mouse models	\$274,500
The Regents of the University of California (University of California Davis)	University of California Office of Research / Sponsored Programs 1850 Research Park Drive, Suite 300 Davis, CA 95618	PC	Problems in algebraic and geometric combinatorics	\$28,000
The Regents of the University of California (University of California Davis)	University of California 1850 Research Park Drive, Suite 300 Davis, CA 95618	POF	Preclinical evaluation of therapeutic efficacy of r-baclofen in reversing behavioral deficits in 16p11.2 deletion mice	\$87,646
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Simons Investigator in Physics	\$594,000
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Editing of the Neural Representation of Perception	\$159,150
The Regents of the University of California, Berkeley	Sponsored Projects Office 2150 Shattuck Avenue, Suite 300 University of California Berkeley, CA 94704-5940	PC	Harmonic Analysis on Lie Groups and Homogeneous Spaces	\$28,000
The Regents of the University of California, Berkeley	2195 Hearst Ave Berkeley, CA 94720	PC	Synthetic Infrared Nanosensors for Real-time Monitoring of Oxytocin Release	\$69,986
The Regents of the University of California, Los Angeles	University of California Los Angeles Office of Contract and Grant Administration 10889 Wilshire Boulevard, Suite 700 Los Angeles, CA 90095-1406	PC	Targeted Grants for Institutes - Institute for Pure and Applied Mathematics	\$771,940
The Regents of the University of California, Los Angeles	University of California Los Angeles Office of Contract and Grant Administration 10889 Wilshire Boulevard, Suite 700 Los Angeles, CA 90095-1406	PC	Neural circuitry linking oxytocin deficiency and social impairment in ASD	\$225,000
The Regents of the University of California, Los Angeles	University of California Los Angeles Office of Contract and Grant Administration 10889 Wilshire Boulevard, Suite 700 Los Angeles, CA 90095-1406	PC	Simons Simplex Collection Support Grant	\$10,000
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Network activity underlying various behavioral states in adult Drosophila	\$159,150
The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Simons Investigator in Mathematics	\$594,000

The Regents of the University of California, San Diego	9500 Gilman Drive Dept 0934 La Jolla, CA 92093-0934	PC	Simons Observatory	\$36,189,036
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	The neural substrates of memories and decisions - Core	\$55,041
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Do VIP interneurons drive abnormal prefrontal circuit function in autism?	\$225,000
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Mechanisms that Connect Autism with Homeostatic Synaptic Plasticity	\$375,000
The Regents of the University of California, San Francisco (Contracts & Grants)	3333 California Street, Suite 315 San Francisco, CA 94118	PC	Spatiotemporal and cell type convergence to reveal ASD neurobiology	\$687,500
The Regents of the University of California, Santa Barbara	3227 Cheadle Hall Santa Barbara, CA 93106	PC	The Simons Fund for Visiting Scientists at the Kavli Institute of Theoretical Physics	\$2,250,000
The Regents of the University of California, Santa Barbara	3227 Cheadle Hall Santa Barbara, CA 93106	PC	It from Qubit: Quantum Fields, Gravity, and Information	\$245,202
The Regents of the University of California, Santa Barbara	3227 Cheadle Hall Santa Barbara, CA 93106	PC	Special Holonomy in Geometry, Analysis, and Physics	\$563,292
The Regents of the University of California, Santa Cruz	1156 High Street Santa Cruz, CA 95064	PC	Collaboration on the Langlands program for covering groups	\$28,000
The Regents of the University of California, Santa Cruz	1156 High Street Santa Cruz, CA 95064	PC	Theory and application of vertex algebras and vector-valued modular forms	\$28,000
The Regents of the University of Colorado d/b/a University of Colorado at Boulder	3100 Marine Street, Room 481 572 UCB Boulder, CO 80309-0572	PC	The geometry and combinatorics of good supercharacter theories	\$28,000
The Regents of the University of Michigan	3003 S. State Street Ann Arbor, MI 48109-1274	PC	A somatic mechanism for ASD phenotypic heterogeneity	\$75,000
The Regents of the University of Michigan	3003 S. State Street Ann Arbor, MI 48109-1274	PC	Structured Homotopy Theory	\$28,000
The Regents of the University of Michigan	3003 S. State Street Ann Arbor, MI 48109-1274	PC	Simons Collaboration on the Many Electron Problem - PI, Cluster Embedding Group	\$111,331
The Regents of the University of Michigan	3003 S. State Street Ann Arbor, MI 48109	PC	Random matrix theory and related topics	\$124,465
The Regents of the University of New Mexico	1700 Lomas Blvd NE Ste 2200 MSC01 1247 1 University of New Mexico Albuquerque, NM 87131	PC	Operator algebras and topological insulators	\$28,000
The Research Foundation CUNY - City College	160 Convent Avenue New York, NY 100319101	PC	Collab. R. on Stochastic Modeling and Analysis of Dynamics on/of Network	\$28,000
The Research Foundation for the State University of New York on behalf of SUNY New Paltz	1 Hawk Drive New Paltz, NY 12561-2443	PC	Nonlinear flows in porous media: modeling, analysis and applications	\$28,000
The Research Foundation of SUNY at Binghamton University	PO Box 6000 Binghamton, NY 13902-6000	PC	Fibered smooth dynamics and dynamical surgery	\$28,000
The Rockefeller University	1230 York Avenue Box 82 New York, NY 10065	PC	Simons Society of Fellows - Junior Fellow	\$3,386

The Rockefeller University	1230 York Avenue Box 82 New York, NY 10065	PC	Simons Society of Fellows - Junior Fellow	\$3,386
The Rockefeller University	1230 York Avenue Box 82 New York, NY 10065	PC	Simons Society of Fellows - Junior Fellow	\$271,933
The Rockefeller University-Office of Development	1230 York Avenue Box 82 New York, NY 10065	PC	Rockefeller University Annual Gift	\$100,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Senior Fellow	\$60,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Computational principles of mechanisms underlying cognitive functions	\$100,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Flexible routing of information through specialized networks in the brain	\$159,150
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$249,803
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$253,300
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$253,300
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$253,300
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$253,300
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$253,300

The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Junior Fellow	\$253,300
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Investigator in Physics	\$594,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Cracking the glass problem	\$505,992
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Society of Fellows - Senior Fellow	\$60,000
The Trustees of Columbia University in the City of New York	Columbia University Medical Center Box 49 630 West 168th Street New York, NY 10032-3702	PC	Simons Collaboration on Algorithms and Geometry - PI	\$80,000
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Adaptive Molecular Sensing in The Olfactory and Immune Systems	\$191,489
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Analyses of the SFARI genotype and phenotype data and their associations: In support of research at the Simons Foundation	\$328,794
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104	PC	Cracking the glass problem	\$421,011
The Trustees of the University of Pennsylvania	3451 Walnut Street Franklin Building P-221 Philadelphia, PA 19104-6205	PC	Adaptive Molecular Sensing in The Olfactory and Immune Systems	\$287,234
The University of Alabama	Box 870104 Tuscaloosa, AL 35487-0104	PC	Weighted estimates in harmonic analysis and PDE	\$28,000
The University of Bath Foundation Inc	c/o Chapel & York Ltd 1000 N West Street Wilmington, DE 19801	PC	Special Holonomy in Geometry, Analysis, and Physics	\$446,263
The University of Chicago	5801 South Ellis Avenue Chicago, IL 60637	PC	Cracking the glass problem	\$2,251,946
The University of Chicago	5801 South Ellis Avenue Chicago, IL 60637	PC	Forging the Missing Link: A Protein-Level View of Marine Microbial Ecology	\$360,000
The University of Chicago	5801 South Ellis Avenue Chicago, IL 60637	PC	Finite p-groups and fusion systems	\$28,000
The University of Iowa	Office of the Vice President for Research Division of Sponsored Programs 2 Gilmore Hall Iowa City, IA 52242	PC	A geometric study of singular manifolds	\$28,000

The University of Iowa	Office of the Vice President for Research Division of Sponsored Programs 2 Gilmore Hall Iowa City, IA 52242	PC	Applications of open book foliations	\$28,000
The University of Iowa	118 S Clinton St Iowa City, IA 52240	PC	Neurodevelopmental assessment of motor behavior in a mouse model of autism	\$70,000
The University of North Carolina at Chapel Hill	Office of Sponsored Research 104 Airport Drive, Suite 2200 Campus Box 1350 Chapel Hill, NC 27599	PC	Identification of shared phenotypes with 3 high-confidence autism models	\$100,000
The University of Queensland	Cumbræ Stewart (Building 72) The University of Queensland Brisbane, QLD, 4072	NC	Functional and behavioral analysis of zebrafish ASD models	\$224,938
The University of Tennessee	1534 White Avenue Knoxville, TN 37996-1529	PC	The role of uncultured microbes in the Arctic marine sediment carbon cycle	\$360,000
The University of Texas at Austin	Office of Sponsored Projects The University of Texas at Austin 101 East 27th Street, Suite 5.300 Austin, TX 78712-1532	PC	Simons Investigator in Physics	\$594,000
The University of Texas at Austin	Office of Sponsored Projects The University of Texas at Austin 101 East 27th Street, Suite 5.300 Austin, TX 78712-1532	PC	Simons Investigator in Computer Science	\$594,000
The University of Texas at Austin	Office of Sponsored Projects The University of Texas at Austin 101 East 27th Street, Suite 5.300 Austin, TX 78712-1532	PC	Kac-Moody Groups over Rings	\$28,000
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	Simons Investigator in MMLS	\$264,000
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	Simons Collaboration on the Non-perturbative Bootstrap	\$540,235
Trustees of Boston University	881 Commonwealth Avenue Boston, MA 02215	PC	Simons Investigator in the Mathematical Modeling of Living Systems	\$330,000
Trustees of Columbia University in the City of New York Morningside	Sponsored Projects Administration 615 West 131 St, Room 254 Mail Code 8725 New York, NY 10027	PC	Discovering Latent States of Neural Activity and Behavior	\$159,150
Trustees of Davidson College	Office of Grants and Contracts Box 7149 Davidson, NC 28035	PC	Collaborations in Number Theory, Analysis and Combinatorics	\$28,000
Tulane Educational Fund	c/o Corporate and Foundation Relations 1555 Poydras Street, Suite 1000 New Orleans, LA 70112	PC	Analysis of Nonlinear PDE Models in Fluid Dynamics and Biosciences	\$28,000
UIC	840 S Wood St. , Suite 518-E CSB Dept. of Surgery M/C 958 Chicago, IL 60612	PC	Simons Simplex Collection Support Grant	\$10,000
Union College	Union College Feigenbaum Hall 807 Union Street Schenectady, NY 12308	PC	Special metrics in Kaehler and Sasaki Geometry	\$28,000

Universidade do Porto	Reitoria da Universidade do Porto Praça Gomes Teixeira Porto, 4099-002	NC	Simons Collaboration on the Non-perturbative Bootstrap	\$422,263
Universidade Estadual Paulista "Júlio de Mesquita Filho"	R. Dr. Bento Teobaldo Ferraz 271 - Bloco II Bairro: Barra-Funda 01140-070 - São Paulo SP São Paulo, 01140070	NC	Sao Paulo State Research Funding Agency Fellowship	\$120,000
University of Arkansas	210 Administration Building Fayetteville, AR 72701	PC	The Genomic Basis of Microbial Adaptation to New and Changing Environments	\$360,000
UNIVERSITY OF BERGEN	Muséplass 1 Bergen, N5007	NC	3rd Workshop on Trait-based approaches to Ocean Life	\$15,000
University of British Columbia	#102-6190 Agronomy Road Vancouver, British Columbia V6T 1Z3	NC	A multi-platform approach to the functional assessment of ASD gene variants	\$360,000
University of Cincinnati	51 Goodman Drive P.O. Box 210222 Cincinnati, OH 45221-0222	PC	Calculus of Variations, Quasiregular Analysis and Differential Inclusions	\$28,000
University of Cincinnati	51 Goodman Drive P.O. Box 210222 Cincinnati, OH 45221-0222	PC	Models for the transmission and dispersal of vector-borne diseases	\$28,000
University of Colorado Denver, AMC and DC	Grants and Contract Mail Stop F428 Anschutz Medical Campus Building 500 13001 E. 17th Place, Rm W1124 Aurora, CO 80045	PC	Collaborative Research in Extremal Graph Theory	\$28,000
University of Delaware	Research Office 210 Hullahen Hall Newark, DE 19716	PC	Algebraic constructions of dense graphs with forbidden cycle lengths	\$28,000
University of Durham	Durham University Palatine Centre Stockton Road Durham, DH1 3LE	NC	Simons Collaboration on the Non-perturbative Bootstrap	\$429,288
University of Florida	219 Grinter Hall Gainesville, FL 32611-5500	PC	Collaborative research in enumerative and analytic combinatorics	\$35,000
University of Georgia	617 Boyd GSRC Athens, GA 30602-7411	PC	Arithmetic over a variable ground field	\$28,000
University of Georgia Research Foundation, Inc.	310 East Campus Rd Tucker Hall Rm 409 Athens, GA 30602-1589	PC	Modular representations of finite groups	\$28,000
University of Hawaii	2440 Campus Road Box 368 Honolulu, HI 96822	PC	Quadratic Algebras and Orthogonal Polynomials	\$28,000
University of Hawaii	2440 Campus Road Box 368 Honolulu, HI 96822	PC	Simons Collaboration on Ocean Processes and Ecology	\$8,141,600
University of Hawaii	2440 Campus Road Box 368 Honolulu, HI 96822	PC	Iwasawa theory and arithmetic statistics	\$28,000
University of Houston	Ezekiel W. Cullen 4302 University Drive, Room 316 Houston, TX 77204-2015	PC	Sparse multiscale representations and applications to multidimensional data	\$28,000
University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Investigations in Combinatorial Mathematics	\$28,000
University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Collaboration in Algebraic Coding Theory	\$28,000

University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Harmonic analysis and partial differential equations	\$28,000
University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Whitney Stratifications, Partitions and Permutations	\$28,000
University of Kentucky Research Foundation	109 Kinkead Hall Lexington, KY 40506-0057	PC	Chromatic symmetric functions	\$28,000
University of Maryland-College Park	3112 Lee Building 7809 Regents Drive College Park, MD 20742-5141	PC	Mathematical Modeling of Cancer Dynamics	\$28,000
University of Maryland-College Park	4101 Chesapeake Building College Park, MD 20742	PC	(MPS-SFM) Stochastic behavior of nearly integrable systems and spectral rigidity	\$132,000
University of Maryland, Baltimore	620 W. Lexington Street 4th Floor Baltimore, MD 21201-1508	PC	Exploring Sex Differences in ASD via the NRXN1 KO Rat	\$225,000
University of Massachusetts Amherst	100 Venture Way Suite 201 Hadley, MA 01035-9450	PC	Algebraic cycles /derived categories of hyperkahler and abelian varieties	\$28,000
University of Massachusetts Lowell	One University Avenue Lowell, MA 01854-2827	PC	Robust and fast computational method for electromagnetics	\$28,000
University of Massachusetts Medical School	Office of Research 55 Lake Avenue North Worcester, MA 01655	PC	Defining the Translational Landscape in Mouse Models of Autism - Core	\$343,750
University of Massachusetts Medical School	Office of Research 55 Lake Avenue North Worcester, MA 01655	PC	Exploring role of Th17-inducing maternal intestinal bacteria in ASD - Core	\$454,628
University of Miami	1320 S. Dixie Highway, suite 650 Coral Gables, FL 33146-2403	PC	Topics in Gauge Theory	\$28,000
University of North Carolina at Charlotte	9201 University City Blvd. Charlotte, NC 28223-0001	PC	Atomistic-to-Continuum multiscale methods for crystalline nanomaterials	\$28,000
University of North Texas	University of North Texas Office of Grants & Contracts Administration 1155 Union Circle #305250 Denton, TX 76203-5017	PC	Real-analytic automorphic forms and applications	\$28,000
University of North Texas	University of North Texas Office of Grants & Contracts Administration 1155 Union Circle #305250 Denton, TX 76203-5017	PC	Deformations	\$28,000
University of Oregon	Sponsored Projects Services 5219 University of Oregon Eugene, OR 97403-5219	PC	Rational mapping, Chern-Simons, group cohomology, and geometric cochains.	\$28,000
University of Oregon	Sponsored Projects Services 5219 University of Oregon Eugene, OR 97403-5219	PC	Harmonic and functional analysis of wavelet and frame expansions	\$28,000
University of Oregon	Sponsored Projects Services 5219 University of Oregon Eugene, OR 97403-5219	PC	Cracking the glass problem	\$652,424
University of Ottawa	550 Cumberland Street, room 030B Ottawa, Ontario K1N 6N5	NC	Simple Aldehydes and Carbohydrates as Prebiotic Catalysts	\$141,000
University of Oxford	Finance Division 23-38 Hythe Bridge Street Oxford , OX1 2ET	NC	Special Holonomy in Geometry, Analysis, and Physics	\$672,165

University of Oxford	Finance Division 23-38 Hythe Bridge Street Oxford, OX1 2ET	NC	Simons Collaboration on the Non-perturbative Bootstrap	\$480,057
University of Pittsburgh	Office of Research University Club 123 University Place Pittsburgh, PA 15213	PC	Interactome perturbation by large-scale mutagenesis to find risk variants - Project 1	\$38,094
University of Pittsburgh	Office of Research University Club 123 University Place Pittsburgh, PA 15213	PC	n-extended affine Hecke algebras and Lie theory	\$28,000
University of Rochester	518 Hylan Bldg. Box 270140 Rochester, NY 14627-0140	PC	Plane partitions with non-homogeneous weights	\$28,000
University of South Alabama	Research 307 University Blvd. AD200 Mobile, AL 36688	PC	Measurement error models in gene profiling data analysis	\$28,000
University of South Carolina - USC	1600 Hampton Street Suite 414 Columbia, SC 29208-0001	PC	Applications of compactified Jacobians to enumerative geometry	\$28,000
University of South Florida	3702 Spectrum Blvd., Suite 165 Tampa, FL 33612	PC	Algorithms in Number Theory, Quantum Information, and Cryptography	\$28,000
University of St. Andrews	University of St Andrews Research Funding Office The Gateway North Haugh St Andrews KY16 9AH St. Andrews, KY16 9SS	NC	Modeling Atmospheres: Warming Archean Earth to Detecting Biosignatures	\$85,000
University of Trento	Via Calepina 14 Trento, 38122	NC	The origins of Fe-S clusters	\$6,060
University of Utah	75 S 2000 E Rm 111 Salt Lake City, UT 84112	PC	Statistical Mechanics of SLE and Directed Polymers	\$28,000
University of Utah	75 S 2000 E Rm 111 Salt Lake City, UT 84112	PC	Coarsening and Texture Development in Polycrystalline Materials	\$28,000
University of Utah	75 S 2000 E Rm 111 Salt Lake City, UT 84112	PC	Topics in Applied Probability	\$28,000
University of Utah	75 S 2000 E Rm 111 Salt Lake City, UT 84112	PC	Moduli Spaces of Stable Complexes in Algebraic Geometry	\$28,000
University of Vermont and State Agricultural College	85 South Prospect Street Sponsored Project Administration 217 Waterman Building Burlington, VT 05405	PC	Rational Catalan combinatorics and quasisymmetric functions	\$28,000
University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Neural Dynamics for a Cognitive Map in the Macaque Brain	\$107,600
University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Model-driven Investigations of Ocean Transition Zones	\$250,000

University of Washington	Office of Sponsored Programs 4333 Brooklyn Ave NE Box 359472 Seattle, WA 98195	PC	Simons Simplex Collection Support Grant	\$10,001
University of Wisconsin-Milwaukee	Office of Sponsored Programs UWM Office of Research P.O. Box 340 Milwaukee, WI 53201	PC	Collaborations in Finite Dynamical Systems and Application to Gene Networks	\$28,000
University of Wisconsin-Milwaukee	Office of Sponsored Programs UWM Office of Research P.O. Box 340 Milwaukee, WI 53201	PC	Collaborations in Geometric Topology and Geometric Group Theory	\$28,000
Université Laval	Pavillon Jean-Charles-Bonenfant 2345, allée des bibliothèques, Local 3560 Quebec, Quebec G1V 0A6	NC	Regulation of KCC2 as a target for treatment of Autism	\$299,998
USC/University of Southern California	Department of Contracts and Grants 3720 S. Flower Street, 3rd Floor Los Angeles, CA 90089	PC	Applications of Algebraic Combinatorics	\$28,000
USC/University of Southern California	Department of Contracts and Grants 3720 S. Flower Street, 3rd Floor Los Angeles, CA 90089	PC	High-Dimensional Sparse Inference with Scalability	\$28,000
USC/University of Southern California	3500 S. Figueroa St., Suite 102 Los Angeles, CA 90089-8001	PC	Protistan Biodiversity, trophic activity and biogeochemistry at station ALOHA	\$69,500
UT Southwestern Medical Center	5323 Harry Hines Blvd. Dallas, TX 75390-9020	PC	Defining the Translational Landscape in Mouse Models of Autism - Project 1	\$343,750
UT Southwestern Medical Center	5323 Harry Hines Blvd. Dallas, TX 75390-9020	PC	Foxp1 orchestration of neuronal function in the striatum	\$222,195
Utah State University	1415 Old Main Hill Room 64 Logan, UT 84322-1415	PC	Elliptic Toda systems and periodic Toda flows	\$28,000
Vanderbilt University	Sponsored Programs Administration PMB 407749 2301 Vanderbilt Place Nashville, TN 37240-7749	PC	Moving interfaces in fluid flows and phase transitions	\$28,000
Vanderbilt University	Sponsored Programs Administration PMB 407749 2301 Vanderbilt Place Nashville, TN 37240-7749	PC	Graph embeddings, structure and traversability	\$28,000
Vanderbilt University	Sponsored Programs Administration PMB 407749 2301 Vanderbilt Place Nashville, TN 37240-7749	PC	Simons Simplex Collection Support Grant	\$10,000
Virginia Commonwealth University	Office of Research, Sponsored Programs PO BOX 980568 Richmond, VA 23298-0568	PC	Controlling infectious disease through collaboration	\$28,000

Virginia Commonwealth University	Office of Research, Sponsored Programs PO BOX 980568 Richmond, VA 23298-0568	PC	Alpha-critical Graphs and Stability Number LPs	\$28,000
Virginia Polytechnic Institute and State University	Office of Sponsored Programs (MC 0170) 300 Turner Street NW, Suite 4200 Blacksburg, VA 24061	PC	Point configurations and multilinear generalized Radon transforms	\$28,000
Virginia Polytechnic Institute and State University	Office of Sponsored Programs (MC 0170) 300 Turner Street NW, Suite 4200 Blacksburg, VA 24061	PC	Modeling the immune responses to viral infections	\$28,000
Wellesley College	106 Central Street Wellesley, MA 02481	PC	Structured families of graphs and order: Interval orders and split graphs	\$28,000
Wesleyan University	237 High Street, North College Middletown, CT 06459-3208	PC	Homogeneous Dynamics, Group Actions, and Number Theory	\$28,000
Western Michigan University	264W Walwood Hall 1903 West Michigan Ave. Kalamazoo, MI 49008-5456	PC	Probabilistic Combinatorics and Constrained Random Greedy Processes	\$28,000
WHYY, Inc	4548 Market Street Philadelphia, PA 19139	PC	Employee Matching	\$400
Wikimedia Foundation Inc.	149 New Montgomery Street, Floor 6 San Francisco, CA 94105	PC	Employee Matching	\$100
Women & Infants Hospital of Rhode Island	101 Dudley Street Providence, RI 02905	PC	The Rhode Island Consortium for Autism Research and Treatment (RI-CART) - Phase II	\$1,277,204
Woods Hole Oceanographic Institution	266 Woods Hole Road Woods Hole, MA 02543	PC	Evolutionary Metabolomics of Prochlorococcus and its Impact on the Dissolved Organic Carbon Cycle	\$58,373
Woods Hole Oceanographic Institution	266 Woods Hole Road Woods Hole, MA 02543	PC	Acquisition of an Ultrahigh Resolution Mass Spectrometer for Microbial Metabolomics	\$44,909
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	Somatic Mosaicism in autism spectrum disorders	\$687,251
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	Restoring GABA inhibition in a Rett syndrome mouse model by tuning a kinase-regulated Cl ⁻ rheostat	\$200,517
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	Simons Collaboration on the Non-perturbative Bootstrap	\$360,000
Yale University	PO Box 208327 New Haven, CT 06520-8327	PC	Simons Simplex Collection Support Grant	\$10,000

Total Grants Approved for Future Payment

\$183,827,537